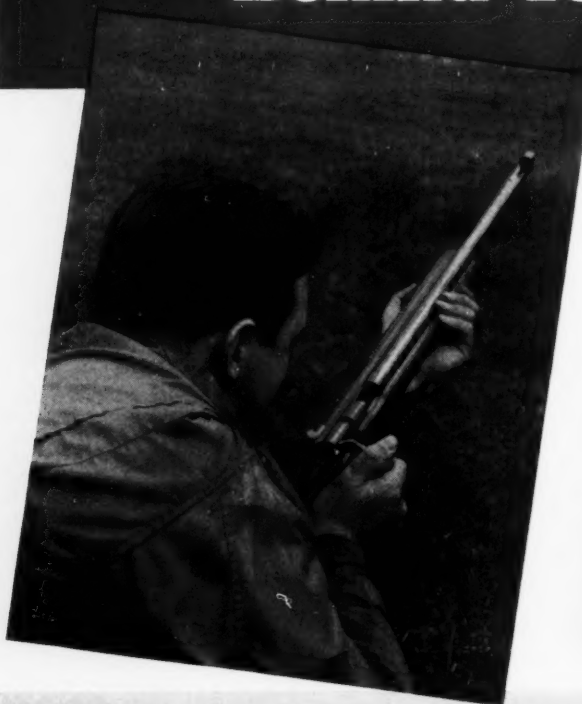


# THE AMERICAN RIFLEMAN

25  
CENTS



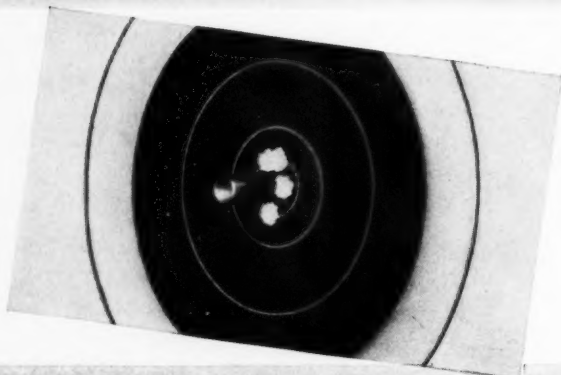
# What's Behind the Man Behind Your Gun?



**1 NO BABY EVER GOT BETTER CARE** than this man's gun. He double-checks every detail. His sights must be set to a hair. His sling must be perfectly adjusted. He insists upon top-flight ammunition because he realizes that without it, all his other efforts might be wasted. And when he chooses Peters, there's more than one man behind his gun. For instance . . .



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**3 HERE'S THE RESULT.** This Speedlight photo shows the last little bullet of a "possible" smacking through the X-ring at 50 yards! You can take advantage of Peters dependability with either Dewar Match—or Police Match .22's, which have also proved to be sensationally accurate in small-bore rifles. Each has Rustless, non-mercuric priming and smokeless powder. Take your choice. They're both champions!



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**DANGER**

**AHEAD!!**

**HELP!!**

# DANGER AHEAD!

In 33 State Legislatures there have been introduced a total of almost 150 bills which in one way or another affect the purchase, possession or use of sportsmen's firearms.

In the Congress at Washington the pressure for a Federal Firearms Registration Law, the first step to eventual confiscation by local police, is increasing though no bill has yet been introduced.

On all sides the plain lesson taught by England is being willfully disregarded by the groups who are cheap enough to seize on the existing "Fifth Column" hysteria to attempt to do what they have been unable to do in years of calmer thinking.

Ironically, at the same time the men who have fought through the years against this sabotaging of the American's right to possess and bear arms by banding together and pooling their limited resources under the leadership of the NATIONAL RIFLE ASSOCIATION are, by the hundreds, putting on the service uniform of their Nation. By enlistment, by the induction of the National Guard, by the calling into active service of the Reserve units, and by the operation of the Selective Service Law these men are taking up military arms in place of their target and sporting guns.

Under these circumstances they are in no position to renew their N. R. A. memberships for 1941.

*At the very moment when American sportsmen have the greatest need of a strong, experienced, National Rifle Association to fight for our right to possess and bear arms the Association is weakened by the patriotic response of its members to the call to the Colors!*

## THERE IS ONLY ONE ANSWER!

Those who are still at work in civilian pursuits must fill up the ranks by enrolling new recruits to take the place of those who have put on the uniform of our Armed Forces.

Will these old friends of the firing line lay down their military arms and return home to find their right to own sporting arms at the mercy of local politicians?

## THE ANSWER LIES WITH YOU!

Use the blank below to sign up one new member to fill up the ranks. **Please** don't delay. Do it now, today. There **is** danger ahead!

## THE ANSWER

National Rifle Association of America,  
Scott Circle,  
Washington, D. C.

DEAR BROTHER RIFLEMEN:

Here is one good recruit to help bring our organization up to full "war strength." I recommend him as an honorable American citizen of the type who will be a credit to our Association.

Fraternally,

\_\_\_\_\_  
(Signature)

ANNUAL MEMBER EXPIRING \_\_\_\_\_

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☐ CLUB OFFICER

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I wish to be enrolled as an active member of the National Rifle Association and subscriber to THE AMERICAN RIFLEMAN for the term as checked below:

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☐ Two years—\$5.00

I pledge allegiance to the flag of the United States of America and to the Republic for which it stands.

I certify that I am a citizen of the United States and that I am not a member of any organization or group pledged to, or working for, a program aimed at the destruction of our present system of government, as established by the Constitution of the United States.

APPLICANT \_\_\_\_\_ AGE \_\_\_\_\_  
(Signature)

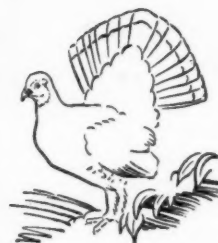
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golden  
autumn  
always yield  
its thrills?**



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**THE RULES OF**

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& TUCKER

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COLT  
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Garfield Huddleston of Kansas City Police has established 6 National Records. .22 Slow-Fire, 22 (25 Yards), 22 Timed-Fire, 22 Rapid Fire and the 22 Camp Perry Course records. With Francis O'Connor he also holds both 22 Doubles records. Every one of these records was made with a Match Target Woodsman.

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to make  
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# THE AMERICAN RIFLEMAN

OFFICIAL JOURNAL OF THE NATIONAL RIFLE ASSOCIATION OF AMERICA

VOLUME 89

APRIL 1941

NUMBER 4

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# POWDER SMOKE

## *"The Courage to be Frank"*

IN APRIL, 1940, we commented editorially under the above title with regard to the Garand (M-1) rifle and the M-2 (1906) ammunition. After pointing out certain facts, and certain questions which were as a result raised, we said: "We have no partisan interest, no 'fish to fry,' no 'backs to scratch.' We only feel that matters have reached a point where someone should have the courage to bring the discussion out of by-ways that seem to lead nowhere onto the highway which leads to frank, friendly, constructive effort in behalf of the nation's efficient defense."

The questions which we raised at that time regarding the wisdom of abandoning the modern M-1 ammunition and returning to the once-obsolete 1906 ammunition, now designated M-2, still remain the subject of speculation and debate. Here is an open question which, unfortunately, may not be determined until tested in the impartial laboratory of another war.

Fortunately, however, some of the other questions—those relative to the M-1 (Garand) rifle—have been answered in the year just passed. Changes in manufacturing specifications and methods have resulted in a marked improvement in the Garand rifle. Upon the strength of its use by a variety of troops under a variety of conditions, it now seems proper to say that the Garand rifles currently coming off the production line are as accurate at all ranges as are the production-model Springfields which they are replacing. As far as can be determined outside of the acid test of actual war, the Garand appears to be a sturdy, dependable weapon, pretty nearly—although not quite—the equal of the manually operated Springfield in this respect. It is doubtful if a semi-automatic weapon of this type can ever be placed upon the same level of war-time mass production as is possible for a manually operated arm. Development of special tools has, however, materially increased the production rate at Springfield, and if the Government is willing to erect the necessary facilities—and always provided that we are granted the *time* in which to erect the facilities, it is now evident that the Garand rifle can be manufactured on a production basis.

In extensive tests recently completed by the Marine Corps, the Garand rifle clearly indicated that it was the best of the semi-automatics submitted for test, and it plainly showed its improved accuracy.

We expect to carry in our May issue an article, or the first of a series of articles, written by a Marine Corps Officer and released with the approval of the Marine Corps, reporting on these tests in detail.

In our editorial of April, 1940, we concluded with the paragraph: "In the interest of America may we all—officers and enlisted men, civilian riflemen and manufacturers who are qualified to speak—may we all have the courage to be frank and the good sense to be gentlemen and sportsmen!" It is in that spirit that we are glad to report that the Garand rifle has now satisfactorily answered most of the questions which its own performance of a year ago raised. It is in that same spirit that we say we believe there still remains an open question as to the wisdom of discarding the splendid M-1 cartridge in favor of the ammunition which proved unsatisfactory to American soldiers operating on American tactical principles in the last great war.



# THE AMERICAN RIFLEMAN

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## IS THIS A SPORT?

By C. J. DERRICK

FRIEND, DO YOU REMEMBER the old-style offhand rifle matches wherein the contestants were wont to retire to the beer-keg after firing at a German ring-target, forty rods away. Do you remember the old .32-40, the king of target rifles, resplendent with barrel-level, palm-rest, double-set triggers and a Scheutzen buttplate? And, do you remember how those old birds, in boiled shirts and derby hats, used to stand, until you were sure they had gone to sleep, before they waved a finger near the hair-trigger, sending a lump of hot lead flying toward that impossibly tiny 25-ring? Maybe you can't. I am not yet fifty and I commenced shooting at the age of ten, but my recollections of that day are dim and hazy, for that game was dying even as I began. Today, it is dead as Pontius Pilate, and I, for one, have no desire to witness its resurrection.

What killed the old-style rifle match? Let us inquire, first, what kept such an artificial form of sport alive. It was the combination of an impossibly tiny 25-ring, plus the difficult offhand position, plus a distance sufficient to introduce the variable errors of aiming, wind and mental hazard. Possibles may have been made: I, myself, have never heard of any except one string of three successive 25's. When these old-timers wanted to test rifles and ammunition, they sat down, seriously, at a bench, and did things with firearms seemingly impossible of modern weapons. When they wanted to test men, they offered the offhand match to all comers.

If you will check the number of rifles manufactured in those days, against the number of men whose names appear in the records of marksmanship, you will realize that then, as now, the bulk of shooting equipment was owned by men whose skill was far below championship rating. The sport was supported by the average rifleman who went out on Saturday or Sunday and fired ten or twenty rounds.

The vital element in any game is the *dub* who plays it. When the *dubs* disappear, the game must end, because there is no longer any competition and no source of revenue. The *dub* not only furnishes the "work-out", but he is also the sucker who pays the bill. When he realizes what he is doing, he fades out of the picture because no man likes to feel that he is a fool.

Get me right, friend: I am not sore at anyone or about anything. I do not shoot in N. R. A. matches, although I support the Association, enthusiastically, because I believe it to be a good thing. I still shoot a rifle, for amusement, and, of recent years, have stuck pretty closely to offhand shooting, with iron sights, at respectable distances—100 to 200 yards, because I am trying to see how old a man can

get, and play that game. I have practically no competition in my one-man .22 shoots. No one around here can see any sense in them, and I will admit that they may be right.

But—there is something wrong with the rifle game. We have a good many members in the N. R. A., and the shoots at Perry and Ritchie, etc., are remarkably well attended. However, there are 132,000,000 people in this country, and, based upon percentages, no honest person can call the United States a nation of riflemen. Probably because I have no children of my own, I am tremendously interested in youth. It gripes me to see how few young men, except those graduated from college, are participating in rifle competition. Contrary to popular opinion, the majority of our young men do not attend college, and the majority of our young men are not interested in rifle-shooting. They play pin-ball games, badminton, craps, jitter-bug dancing, and highway robbery. I am now serving a term on a Federal Grand Jury, and it is making an old man of me to listen to the ages of the men against whom the United States attorney is asking indictments. Why do these boys commit crimes? Mainly because they have never learned self-control. They have to play, they want to make a showing at something, and they have never been taught how to boss themselves. We have created a machine age wherein we depend upon mechanical aids for everything; we have forgotten that the basis of life is man.

Because I had an idea that rifle-shooting, as a sport, might be useful in manufacturing good citizens, I went forth to ask these kids why they didn't play this healthy game. From what they told me and from what I know about rifle-shooting, this article was developed. You may not agree with me, but I hope you will be open-minded, because I am playing the hand as I see it.

What killed the old-style offhand rifle match? *The gadgets*. Not only were the rifles, with their highly specialized appurtenances, extremely expensive, but they were a nuisance to lug around, and utterly useless for any sort of shooting except that for which they were designed. Yet, so tough was the competition that a man couldn't play in the big leagues without this sort of equipment. The younger generation, to which I belonged, could neither afford such a rifle nor see any sense in owning it. We shot .22's, because we could buy both a Stevens "Favorite" and the "shorts" to feed it, and, once in a while, we had an opportunity to fire a Krag, through the kindness of some friendly member of the National Guard.

Military rifle shooting eliminated the last vestiges of the old game, principally because it was a return to common

sense. It appealed to that innate sense of simplicity, and was a huge relief after the complicated formality of the former art. You had a rifle and some cartridges. You discovered that, by taking a simple hitch in the sling, formerly used solely as a pack-strap, you could fire—standing, kneeling, sitting, or prone—with accuracy formerly associated solely with some sort of artificial rest. When you ceased firing, you could hop up, walking or running, unimpeded by any sort of baggage except the rifle and its ammunition. On top of that, the Krag, and its successor, the Springfield, made a darned good hunting rifle, either “as was” or with a better stock and sights. At one sweep, the riflemen of America were pushed back into the days of Daniel Boone, when a man could take to the hills with what he comfortably might carry. It made sense, and we went for it.

In college, I fired with a rifle team, later affiliated with the N. R. A. We worked indoors, with .22's, dressed in our grey cadet uniforms, and we shot in three and four positions, as a matter of course. Before we joined the N. R. A. the firing was done on three sizes of bullseyes, because everyone realized the increased accuracy possible with steadier positions. We were taught that a rifleman consisted of a rifle and a man; that as you eliminated the possibility of human error, by assuming a steadier position, you automatically increased the value of equipment. We wore no pads for .22 shooting, because the rifle did not recoil and it was assumed that a healthy man could rest his elbows on a blanket, for a hundred rounds, without becoming a prospect for the hospital.

On the outdoor range, with the .30 caliber, we fired in flannel shirts, lying upon a blanket and with a towel pinned at the right shoulder. It kept the steel buttplate from cutting, and we were supposed to absorb the recoil, just as the soldiers did, who didn't even have the towel. There were no elbow pads, the idea of making a solid support for the elbow not having been developed. Nobody went to the hospital.

The other day a young friend of mine, who was reading some back numbers of the RIFLEMAN, opened a copy and handed it to me, silently. It reproduced a photograph of a perspiring individual, his handsome features distorted with agony, encased in a padded coat similar to and apparently as warm as a Chinaman's winter suit, lying prostrate upon a thick mat, a wan smile of triumph writhing on his lips. Lashed to him by a leather strap, which fortunately was provided with a huge cuff—without which his struggles might have severed his left arm, was a ponderous combination of heavy-barrelled rifle and high-power sighting telescope. His firearm rested in the palm of his left hand, which was protected by a huge leather mitten, similar to those worn by people who suppress oil-refinery fires. Near him was a cradle, in which he placed his weapon when the task of holding it became too great for human endurance. At his side stood the best part of a hundred dollars worth of spotting scope, and I looked for, but failed to see, his valet, or esquire, who might reasonably be expected to disarm him and tote him to the hospital when the gallant struggle had ended.

It occurred to me that this man might have a hell of a time changing position, either to the front or flank, but I assumed that, with the enemy a half-mile away, he would

have ten or fifteen minutes in which to make adequate preparation. I judged he would need it. Being convinced that I beheld some superman who had just completed scoring two or three hundred continuous bullseyes at one or more thousand yards, I glanced at the caption, idly, because I see no sense in six-day bicycle races or other form of endurance contest.

The marksman, believe it or not, was none other than Joe Doakes (or was it Elmer Zilch?), who had just scored 400 x 400 with 39 X's, using NEVERKLEANEM “Superslug” in a Model 606 NePlusUltra Winnington Triple Extra Heavy Barrelled Target Rifle, with three folding flat-irons at the muzzle (a pair of balloon-tired wheels, \$29.00 extra), equipped with a twenty-two-power SQUINT & HITTEM scope, and nine tubes and an extra condenser and, can you believe it, he was shooting *at fifty yards*, and *that musket* was a .22! Now, I ask you, gentlemen, as a man to men: *if a man has to crawl on his belly, like a lizard, to shoot at a mark fifty yards away, does he have to brag about it?*

For your consideration, I submit the obvious fact that Mr. Doakes (or was it Zilch?) could construct, for half the cost of his accessories, a machine rest, far more portable and certainly as useful for testing ammunition, which, apparently, is the purpose of Mr. Zilch's (or Doakes') tremendous effort.

Get me correctly. I do not object to Joe's ballistic investigations. We must have research—although most scientists whom I have known are a weedy sort, the kind you would never invite to a beer bust. They are too full of knowledge, condescension, and alibis. I can stand them, but I will have my rights, even if Joe does have a horseshoe, or gimmick, sewed in that big mitten. He can't intimidate me.

I support the N. R. A. and pay my dues cheerfully, even if a lot of the stuff in the magazine does burn me up—especially when the Colonel starts pouring out the right way to do everything. I am for the N. R. A., and I hope to get the Editor's advice on the kind of blanks the Legion will shoot when they plough me under; BUT, THEY GOTTA QUIT CALLING JOE DOAKES A SPORT!

He may be a scientist, an advertising scheme, or just an animated machine rest, but he isn't a sport unless he will do part of his shooting under conditions approximating the practical use of a rifle—AND ADVERTISE THAT, ALSO! He can rise up on his hind legs and shoot that contraption in the standing position, or get down on his belly, in his working clothes, and pop at a mark at a decent distance—out in the open, where he has to fight wind and light. And, once in a while, he can take a ten-dollar rifle, just to show it will shoot, and knock over a tin can. The least he can do, as an American citizen, is to avoid giving the impression to our boys that you can't get anywhere in the shoot game without access to the mint.

Joe, lay off! And that goes for the arms and ammunition companies as well. You'll kill this .22 game deader'n Julius Caesar if you keep on loading it with gadgets, increasing its cost and artificiality, year after year. The .32-40 boys did.

Did it ever occur to you how many useful aids are permitted the prone shooter, and how the rules are set up to favor this single style of firing? Did you ever stop to

realize how utterly impossible it is for a boy, in moderate circumstances, to break into real competition?

Sure, I know all about those special matches for cheap equipment. How many of the top-notchers shoot in them? How would you like to be a poor relation, invited to eat the leavings in the kitchen after the company's gone. *These boys don't want your damned condescension and charity!* They want to meet you, on equal terms, and lick the daylights out of you. Maybe they can't do it, but they're entitled to the opportunity. They can't get up to your level of equipment: it's up to you, if you are the sports you claim to be, to get down to theirs; or, at least, to be a rifleman—a rifle and a man, instead of being seventy-five percent machinery and twenty-five percent man.

What we need is less emphasis on perfect scores and more upon practical rifle shooting. Unlike other loads, the .22 is so cheap that practically everyone can afford to shoot it, and so superbly accurate that it is a fair test of any man's marksmanship. If, because of the growing feeling that we must have expensive, specialized equipment, we kill the .22 game, as our fathers did the .32-40, we shall be guilty of treason in this war of ours for democracy.

It is unnecessary to risk it. Due to existing rules, the encouragement of position shooting will go a long way toward reviving interest. I do not believe it will be necessary to change the existing rules for prone shooting. Certainly present regulations relative to the standing position are very desirable, although, in view of the aids permitted the prone shooter, the offhand position is heavily, and probably unnecessarily, penalized. For example, we wink at heavy elbow pads, which you and I know are used to perfect support and not for protection, since most firing is done from a pad; but we forbid the standing marksman to use even a simple extension of the heel of the butt, to insure steady and uniform holding of the piece. The prone marksman is permitted a heavy shoulder pad—utterly unnecessary for absorption of recoil of a .22—because it makes a perfect bearing for a rifle when proper tension is applied to the sling. The prone marksman not only is permitted to use the sling, but he is allowed to use a sole-leather cuff against his arm, to obviate tremors; and he is further allowed to use a heavy shooting mitt so that he can cram his hand tightly against the sling, and its connection, thus taking nearly all of the personal equation out of his left arm. On the other hand, the standing marksman is forbidden the use even of the hasty sling, and he must hold his piece with the left arm extended. I have seen men disqualified for firing with the sling tightened, using a shooting glove, and cramming the hand against the band. Sometimes it is permitted, but it is contrary to the letter of the rules.

So you can see that the effect, if not the intent, of the rules is to make the standing position extremely unstable; that is, the standing rifleman is twenty-five percent rifle and seventy-five percent man. This sort of shooting is a test of a man and not of a machine. It ought to be encouraged.

How are you going to do it? Obviously, men cannot be ordered to fire standing, nor will the mere inclusion of an increased number of standing matches achieve this end. All men are human, including riflemen, and we must provide some reward or penalty that will tend to push people our way. I suggest both the reward and the penalty.

There ought to be four grades of riflemen, corresponding to the four positions. The boy or man who is just learning should begin with the easiest position, that is, prone. The awards for excellence in this group ought to be the lowest, and we should build up the feeling, based upon the truth, that while ability to shoot in any position is very commendable, a fellow who cannot make a respectable score in any but the prone position certainly is not a rifleman. He is twenty-five percent man and seventy-five percent equipment. When a fellow graduates from the prone position, HE SHOULD BE A TYRO, SITTING. He may be a finished prone shot, but he preserves his amateur standing in the other positions, until he has won a medal in competition. If he jumps from prone to standing, omitting the intermediate grades, he automatically loses his tyro rights in those positions. The idea is to get people trained through all the stages, so they will know this game from end to end.

Now each man should be required, to preserve his official averages, to fire a proper proportion of his record shots in the most difficult position of his grade. That is, the sophomore will fire half his record sitting, the junior one-third kneeling, and the senior rifleman one-fourth standing. If he fails to fire any string in the most difficult position, no account will be taken of his general average, and the N. R. A. should, once a year, post his name as unqualified in that grade, thereby automatically dropping him one notch. If he fails to fire at least fifty, thirty-three, or twenty-five percent, as specified for his grade, the statistician, when computing his average, will use such scores as he has fired, over and over, until they represent at least the proper proportion of the total. In this way the general averages of riflemen will give the public a more accurate picture of the skill of our top-notchers.

It is fair to assume that, since the other positions are more difficult than the prone, the scores ought to count for more in a staged match, that is, a combination of two or more positions. After all, what we are testing is men, and not machinery. To accomplish this, all that is necessary is to multiply the score for each stage by some factor, to be determined by experiment.

As a suggestion, may I point out that, in the old days, before the N. R. A. captured me, we used to shoot at the army "X", "Y", and "Z" targets which, at fifty feet, I believe ran in the proportion of 1",  $\frac{1}{2}$ ", and  $\frac{1}{4}$ " for the standing, sitting and prone. I may be wrong on those dimensions, as that was twenty-five years ago. Or, since nearly any good prone shot can make tens while a good offhand shot is glad to get an eight, the standing position seems to be about four times as difficult as the prone; so a rough guess at the factors would be:

Standing .....	4	Kneeling .....	3
Sitting .....	2	Prone .....	1

For example, let us assume that a match calls for ten shots standing and ten shots prone. Contestant "A" makes 99 prone and 89 standing. His total is  $188 \times 200$ , or 94%. But no. Rather his total is  $1 \times 99$  plus  $4 \times 89$  or  $455 \times 500 = 91\%$ . Not a great deal of difference, to be sure, but enough to lose a match, or a qualification emblem. To get his 94%, even if he made a perfect score prone, would take a 93 standing.

Now, if we are going to encourage youth, we ought to require that a man use the same (Continued on page 30)



# A RIVAL OF THE .375

By GEORGE F. H. KONIG

SOME GUN MAKERS NEVER KNOW when to stop. We had got used to the idea that the .375 H & H Magnum was just about the best so-called all around cartridge on the market, and personally I have used it since 1913, back in the palmy days when New Brunswick was a hunters' paradise. In that year Holland & Holland built me a double, and for woods hunting it would be hard to beat. Later on they made me a scope-sighted Mauser for use in the North and a splendid rifle it turned out to be. Occasionally I have used a .300 Magnum with Pope barrel, and its ballistics duplicate an 8-64 Brenneke, but the .375 remained my favorite.

Then one day the old master Brenneke saw fit to send me a sample of a new cartridge he had just brought out. The case was almost exactly like the Newton .350, which, by the way, he had never seen, 64 mm. long with a powder capacity of 77 grains. The bullet, 9.3 mm. (.367") in diameter, just short of 1½ inches long, pointed, brass tipped, with a cone base and jacket of gilding metal. It weighed 302 grains. Very nice, but I did not want the blamed thing and had no use for it. However, in due course a rifle was shipped to me with a supply of ammunition, and naturally I had to try it.

Barring the kick (at that time the cartridge was loaded with 77 grains of powder to give over 2600 f.-s. M.V.), I liked the shell. What impressed me most was that here we had one of the most powerful Magnums on the market, that did not require a Magnum action. The accuracy was good and the action functioned beautifully, with never a sticking shell or any sign of too much pressure. But I did not like the rifle. It was well sighted with an Ajack 3-power scope, was well stocked according to German ideas, but too light, and it did not fit me. Finally, I lost patience and packed it up for a return trip, but with it went my beloved H & H with instructions to have it copied, stock, barrel sights and all.

Brenneke agreed but wrote back that in the meantime several improvements had been devised which, of course, I should have. First, the Mauser action was really getting to be a little passé, and some plastic surgery would do no harm. There was that thumb notch in the receiver, for instance; of no use whatever except to cause a lot of noise when the bolt rode over it. Then there was too much play in the bolt; besides there should be a tang safety, a la Greener, and a bolt lock. Then there was that military trigger; not at all satisfactory. Who would want a double pull on a shotgun? \* \* \* Then why have it on a rifle? Tinkering with the Mauser trigger leads to nothing but trouble, so it would be best to fit an entirely new assembly; one on which Oskar Merkel had a patent.

Then, the scope and mounts. Some thirty years ago the first really practical hunting scope had been brought out, and since that time rifles and ammunition had been improved out of sight, but scopes and mounts had in the main stood still. How many mounts, of purely sporting type, were there that could be positively adjusted to 2

minutes of angle? If a gun maker could regulate a fixed mount (and fixed mounts only should be fitted to Magnum rifles) to hit a 4-inch bull, he was doing well, and the finer adjustments should be the job of the scope maker. (I agree with all of this, but I do think that the B.S.A. adjustable mount comes pretty close to the ideal). The upshot of all this was that there was a new Hensoldt scope, with tube of duraluminum and weighing less than nothing at all, which I should have.

After several months I received the official report of the Testing Station, which looked pretty good; and finally rifle and scope arrived safely in New York. Here is what I found: An exact duplicate of my Holland, line for line and ounce for ounce, except that the action is standard which makes the barrel, 25¾ inches long, a trifle heavier than the Holland. Total weight, 8 pounds 12 ounces. The stock is a very fine piece of dark walnut, fitted to the action with horn block and taper wedge, as it should be done on all Magnum rifles. The action screws have shims under their heads and are held in place by small set screws. The front sight has the Holland hood. The rear sights, folding backwards, are slotted into the solid half-rib, and on the cocking piece is a Rigby peep. No, there is no play in the cocking piece, and a gunsmith who delivers a shaky sight has a lot to learn. I have used this type for years, both the Holland and the Rigby pattern, and can wish for no better.

The action, deeply carved (not engraved) in an oak leaf design, has a few features that were new to me. The unsightly thumb notch is omitted, which not only improves the looks but also stiffens the receiver. On the right hand side of the bridge is a small housing carrying two spring plungers set at right angles to each other. One fits into a hole in the bolt handle and forms a catch, similar to the one found on Mannlicher rifles. The other runs through the bridge and bears against the extractor which comes right down to the safety lug. Its purpose is to reduce play in the bolt and to prevent it from occasionally binding in the bolt race. I won't go so far as to say that it will render the action foolproof in the hands of a novice, but it is an improvement. A Greener safety is placed on the left side of the grip; very useful when the scope is mounted.

The most interesting thing of all is the trigger assembly. It gives a clean shotgun release without a double pull, permits the heaviest type of mainspring, and simply cannot let go no matter how hard the bolt is slammed home. For deliberate shots, chiefly with the scope, the trigger is fitted with a French set that does not interfere with the ordinary pull. The cocking piece is held back by a rotating tumbler, which in turn is tripped by an ordinary sear acted upon by the trigger blade. The whole assembly is contained in a neat steel housing solidly pinned to the bottom of the receiver. Though patented, the idea is anything but new for it is nothing else but the drum release often found on ancient cross bows.





*Left to right: 9.3-mm. with 302-gr. bullet; same with oval lead ball; H. & H. .375 Magnum 300-gr. cap bullet loaded by Western; Newton .35 case; 9.3-mm. with 257-gr. bullet*

The action is, of course, hand stoned and polished and the magazine well is provided with recoil shoulders which every Magnum rifle should have, as otherwise the points of the bullets are bound to be damaged by the recoil. With the rifle came Hensoldt's four power Dural-Dialytan with a luminosity of 81, weighing, with mounts complete, only 12 ounces. Elevation is effected by the usual turret disc, reading to  $\frac{1}{2}$  minutes of angle, while windage is obtained by turning the objective lens, and then locking it with a clamp ring. The mounts are of the regular four-hook type clamped to solid ribs integral with the scope tube and hooking into foot plates, one of which is let into the solid barrel rib, the other brazed to the top of the bridge.

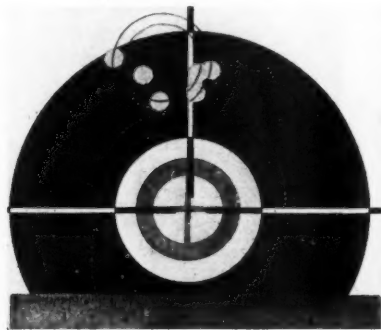
I have read all kinds of uncomplimentary comments on these mounts from men who by some are considered authorities, but I have never been able to find out what they based their opinion on. I have used a number of these mounts for over 25 years without the slightest trouble, something I cannot say about any side-bracket mount I ever tried. The position of the scope on the rifle is somewhat of a compromise. The ocular comes flush with the tail piece of the receiver which is right for the prone, but a little too far forward for the sitting position. It can't be helped

on a hard-kicking rifle. Furthermore, with the large diameters of objective and ocular  $1\frac{3}{4}$  inches and  $1\frac{1}{2}$  inches, respectively, the scope could not be placed as low as I should have liked. Even as it is, the bolt handle had to be bent quite a little.

The scope itself is, of course, first class. The luminosity of 81 is unnecessarily high for normal eyes, but the large exit pupil adds a little to the quickness of the sight, which is appreciated with a glass having a field of not more than 34 feet at 100 yards. A magnification of 4 power may seem high for general big game hunting. I have done a great deal of shooting with glasses of  $2\frac{1}{2}$  and 3 power, but I have come to the conclusion that when the scope is in the main an auxiliary sight, 4 power is to be preferred. For a graticule, I long ago adopted a fairly fine cross between heavy posts and have had no occasion to regret my choice. On a powerful rifle it is advisable to avoid wires and to use an engraved glass plate, which will also do away with every trace of parallax and "green light".

A few dimensions may be of interest. The barrel, externally, is an exact copy of Holland's best quality .375 with solid half-rib, is very heavy over the chamber (1.30 inches), and tapers to a slim muzzle of .634 inch. The groove diameter is .368 inch against a bullet of .367 inch, which, considering its long bearing surface of

*Target by Official German Testing Station at Wannsee*



1 $\frac{1}{16}$  inch, is just about right. The depth of the grooves measures .005 inch, they are shaped somewhat like those of the old Newtons, which gave wonderful accuracy, some "experts" to the contrary notwithstanding. Six narrow lands give an unusually rapid twist, copied from the Holland, though Brenneke balked at the Holland type of rifling. I don't blame him, but what results their wide lands and narrow grooves will give! The chamber is on the tight side, shells expand on the average only 2 $\frac{1}{2}$  thousands at the neck, and hardly lengthen at all. It is brought to a mirror polish, which causes cases to extract without a sign of sticking. Headspace is close, and works well with the thin Brenneke cases, but would be apt to cause trouble with our harder shells.

Stock dimensions are as follows: Length from trigger to centre of buttplate, 13 $\frac{3}{8}$  inches. The trigger is slanted, of course, as on high grade shotguns. Drop from the 100-yard sight line, at comb, 1 $\frac{1}{16}$  inches; at heel, 2 $\frac{3}{8}$  inches. Circumference at grip, 4 $\frac{9}{16}$  inches. Distance from trigger to grip cap, 4 $\frac{1}{8}$  inches. The rifle has neither a high comb nor a thick, short grip, for the very good reason that I don't like either of them. I like to shoot in comfort, and a big Magnum is not a .22 target rifle.

When I tried the piece on my range, I found that with iron sights the group would center 2 $\frac{1}{4}$  inches high at 100 yards, while with the scope it shot exactly to the point of aim, which is, of course, a trifle low. I had no trouble to hold in the 10 ring, and the rifle fitted so perfectly that the recoil, while heavy, was far from being unpleasant.

When Mr. Brenneke designed the 9.3 cartridge, he planned for a m.v. of 2650 foot-seconds, and did obtain it. He very soon found out, however, that the load was too heavy for any rifle under 9 $\frac{1}{2}$  pounds weight, so he reduced his powder charge to 74 grains of R. Sp. N. O., which has now been his normal load for a number of years. Through the kindness of Mr. Edwin Pugsley I was able to have it chronographed in the Winchester plant, where it gave a mean m.v. of 2523 f.-s. from my rifle after the barrel had been fouled; that is to say, not counting the first (oil) shot. Based upon this and taking the Hodsock tables and a "C" value a trifle low, in order to save figuring, I arrived at the following ballistic values:

#### VELOCITY IN FEET PER SECOND

<i>V</i> <sub>0</sub>	<i>V</i> <sub>100</sub>	<i>V</i> <sub>200</sub>	<i>V</i> <sub>300</sub>
2525	2345	2165	2000

#### ENERGY IN FOOT POUNDS

<i>Muzzle</i>	<i>100 yards</i>	<i>200 yards</i>	<i>300 yards</i>
4270	3680	3140	2680

#### ANGLES OF ELEVATION

<i>100 yards</i>	<i>200 yards</i>	<i>300 yards</i>
2.68'	5.81'	9.23'

#### TRAJECTORY

<i>Distance</i>	<i>Muzzle</i>	<i>100 yards</i>	<i>200 yards</i>	<i>300 yards</i>
200 yds. Elev. ....	5.81'	5.81'	5.81'	5.81'
Elev. for Dist. ....	2.68'	5.81'	9.23'	
Diff. in Elev. ....		+3.13'	0	-3.42'
Trajectory in inches ....		+3.27	0	-10.75
Correction for Scope Sight				
-1.70".....		-0.85	0	+0.85

<i>Distance</i>	<i>Muzzle</i>	<i>100 yards</i>	<i>200 yards</i>	<i>300 yards</i>
Trajectory with Scope ....		+2.42	0	-9.90
Correction for Iron Sights				
-0.75".....		-0.37	0	+0.37
Trajectory with Iron Sights ....		+2.90	0	-10.38

It will be seen from the above that ballistically the 9-3-64 mm. and the .375 with the 300-grain bullet are very similar, with the former having a slightly flatter trajectory. There is little to choose between them as far as accuracy goes, both being above the average and both will, in a good barrel, give 5-shot one-inch groups quite frequently. Where the 9.3-64 mm. shines is in bullet efficiency. I don't think that there is a bullet made today that, for game shooting, will quite equal the Brenneke construction, which combines very deep penetration (32 boards with the 302-grain bullet) with a destructiveness that is surprising.

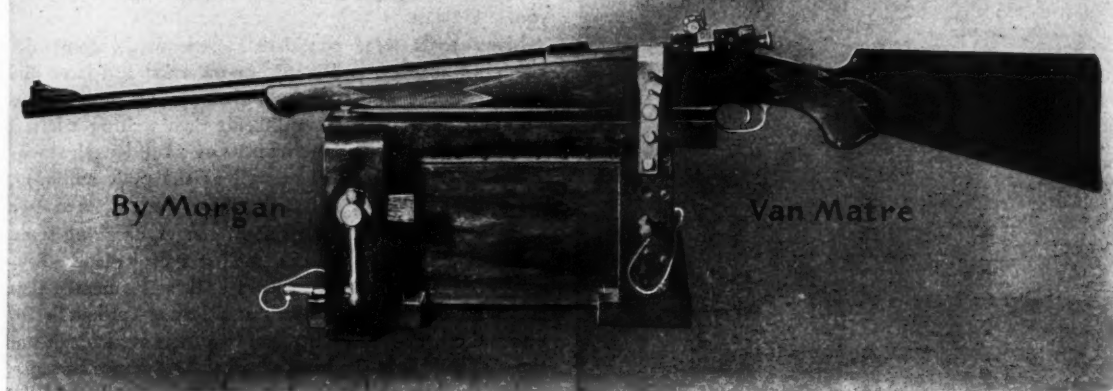
Quite recently Mr. Brenneke brought out a speed load, a 257-grain bullet at 2750 f.-s. All I know about it is that it is pleasant to shoot, very accurate, and that the bullet has the same "C" value as the 180-grain pointed Springfield bullet.

One trouble with Magnum rifles is that we don't shoot them enough. The ammunition is too expensive and few people like the kick well enough for frequent practice on the range. Brenneke got around this by designing a hard lead bullet, oval in shape and just out of round. With this my rifle will put four out of five shots into one inch at 50 yards with fair regularity, and better still, it will shoot to the point of aim at that distance with the ordinary hunting-sight setting. Fired cases may be reloaded almost indefinitely, and as the primers are noncorrosive and the Berdan cases easy to reload (with the proper tool costing about \$1.00), I get a great deal of fun out of a rifle that normally would repose most of the time in its case.

Some readers may wonder why, in this day and generation, anybody should want two open flap sights on a Magnum rifle. Well, one of them is simply an insurance against accidents on a long trip, and the other is sighted for twenty yards with the lead ball, which is a grouse range. To carry an extra .22 rifle on a big-game hunt is a nuisance. Instead, I pack in my kit a de- and re-capping tool (it looks like a pair of pliers), a pill box of primers, a pound or two of lead balls, and a bottle of compressed powder pellets, each 8 grains in weight. I have done the same when carrying the .375, and I can recommend it.

After having a rifle built to carefully considered specifications, there is usually some room for improvement. If I had to do it again I should reduce the weight to 8 $\frac{1}{2}$  pounds, and confine myself to the speed load with the 257-grain bullet. I know that the 270-grain bullet in .375 caliber leaves much to be desired: it breaks up too soon. But the Brenneke bullet is designed for penetration. It won't mushroom: none of his big-game bullets do. If it acts on game in approximately the same way as does his 177-grain 7 mm. bullet, I should not ask for anything better, not even on Alaskan Brownies. I believe the 302-grain bullet is unnecessary for any game on this continent, though my experience with it has not been extensive.

# ANOTHER "SMALLEST"



THE INSPIRATION THAT CAUSED ME to go into ax making, some results of which were shown in an article in the July, 1940, *RIFLEMAN*, came from Fitzgerald. The spark that started the gunsmith's kit came suddenly one day from reading the little book on amateur gunsmithing by Colonel Whelen, wherein he tells how he was able to work with just a few tools in a 5 x 6 closet and succeeded under those handicaps in stocking a gun. Why not go the Colonel one better and develop a little outfit that could be carried wherever one went?

The beginning was a little portable bench without tools, which was adapted from an old book on carving designed for those unable to accommodate a suitable work bench, for whom the author suggested a little bench which could be clamped to any kitchen table or available space by two C-clamps.

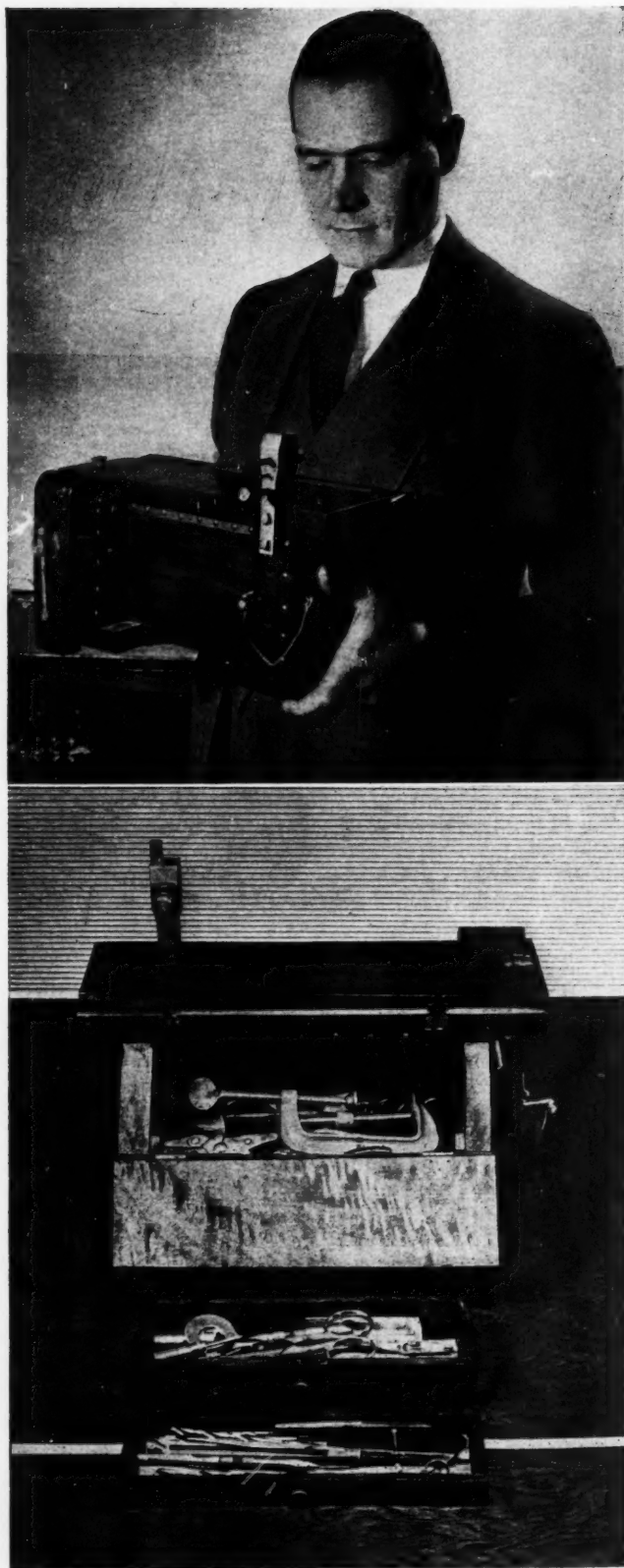
This consisted, briefly, of a top of  $1\frac{1}{8}$ " hardwood about 24 x 8, two sides extending back beyond the top, the upper rear portions being cut off at the top, leaving about two inches of the top overhanging at the ends, with sides and top connected by a strong cross member placed so as to leave a 2" overhang in front. Cleats attached to the bottoms of the sides gave stability to the bench and also afforded space for the C-clamps which held the bench to a table or plank placed on trestles, or to whatever else it was to be attached to. It was extremely rigid, in fact quite successful for use where a regular work bench was not available, and in the course of time a small wood vise was made and fixed to the front left hand corner. At times a small clamping iron vise was used, usually on the front right hand corner. Thus equipped it was used by my brother, clamped to a 10' x 2" plank placed on trestles, to build a trailer; and also by a cabinet maker in my employ, to make most of the interior fittings for a small tabloid cruiser. Used on the boat, it was clamped to the rear deck and was

very convenient, as it saved stepping from the boat to the ground, and back again, when some operation had to be performed. Both of these men were very much sold on it, and several were made and given to friends.

When the idea came to get up a suitable gunsmithing kit, it suddenly dawned on me: why not put on a bottom, rear door, add a few shallow drawers to hold tools, and have a combined bench and tool box that could be picked up and carried anywhere? And while at it, why not make it as compact as possible for portability? With that thought in mind the bench was first made; the tools adopted to fit the available space were selected and made up later. American walnut of the finest quality and extremely hard was used throughout. The dimensions are as follows: Top, 14 x  $4\frac{1}{2}$ ", with tray 1" wide at rear; height,  $7\frac{1}{2}$ "; base, 14 x 9". The wood vise jaws are  $2\frac{1}{8}$ " wide, and the vise itself opens to  $3\frac{1}{2}$ ". The top drawer is  $8\frac{3}{8}$ " x  $2\frac{1}{2}$ " inside, and is  $\frac{3}{8}$ " deep. The lower drawer is  $8\frac{3}{8}$ " x  $2\frac{3}{4}$ ", and is  $1\frac{1}{8}$ " deep, inside. There are little turned copper button pulls on the front, and all other trimmings are either brass or copper.

The photographs show better than a description what it is like. These were taken for me by Mr. Philip Roettinger, an amateur photographer and enthusiastic shooter whose sympathetic understanding of the subject is worthy of all praise. His work, incidentally, equals or excels that of any professional I have ever come in contact with.

Two shallow drawers were dovetailed together for small tools, the space below being left for the bulkier articles. A small permanently fixed wood vise at left front, and a detachable iron vise at right, together with a bench stop, completed the bench. The iron vise was specially designed and made from my suggestions, and was such a success that it merits a special paragraph later. With the two vises the outfit weighs, empty, just nine pounds, and complete with tools, 16 pounds and five



ounces. French polished, it was really a handsome article with its beautifully grained wood, shining polished brass fittings, and steel vise. Now to stock it with enough equipment to do what one might wish to accomplish in gun work, including full stocking of a sporting rifle. Not quite so simple as making the bench, I can assure you.

Many tools were considered, some made, some devised and adapted, and many, many, tried and later discarded. Space limitation was the greatest problem—as writing a telegram is more difficult than writing a letter. Considering, first, the requirements of a full length stocking job—the most usual as well as the most ambitious project of the amateur smith, there were selected two 8" cabinet rasps, flat wood chisels, gouges, checking tools, and checkering file, and the smallest useful plane. Several files were added, also a hand drill, and a handle that held most of the tools, as well as a Skrooz-On handle for files and other tools, so there are two tools available at one time. The Skrooz-On handle held also a 6 ounce hammer, and with these and a small saw, hacksaw, and little else one can make a very creditable stock. For general work three pairs of pliers—one a combination hand vise—drift punches, and screwdriver bits were added.

The full list of tools is given, with brief comments on some of them, and there is an illustration showing a well known professional in action at the bench, who is none other than our old friend Joe Lamping, of Powell & Clement. There is also illustrated a Springfield stocked by myself; but the handsome young man is not myself, but Manager Phil Overbeck.

To describe more fully the iron vise made after my suggestions by The Machine Service Company, 1052 Gilbert Avenue, Cincinnati.—They have made up for me three different sizes, but despite what seems a high price to one unaccustomed to paying for special work, they are distinctly not soliciting further orders for them. If you want one, you, not I, must take it up with them, as I learned to pass the buck in the Army, and laymen claim that my profession does not completely divorce therefrom. Made of the best tool steel, this vise weighs 10 ounces and holds as firmly as a vice many times its weight, while its sloping top side can be used to hammer upon, no anvil being included in the set. Attached by two lag screws to the bench, it really stays put and can be readily detached and used as an additional hand vise. Dimensions are: distance above top of bench,  $2\frac{3}{4}$ "; jaws 1" wide, open  $1\frac{1}{8}$ ", made of best tool steel  $\frac{3}{8}$ " thick. There are two vertical and one horizontal groove. Placing an article in the vise is accomplished by turning the upper set screw by hand to a fit, and then using pressure on the lower setting screw, which has a hole drilled through its head to permit turning up tight.

The set is complete to the best of my ability, and will do all that is desired in the usual run of amateur tinkering. Revised from time to time from my own experience and from suggestions both amateur and professional, it can now be considered a closed incident. The cost has been about \$100.00, and many hours of my own work

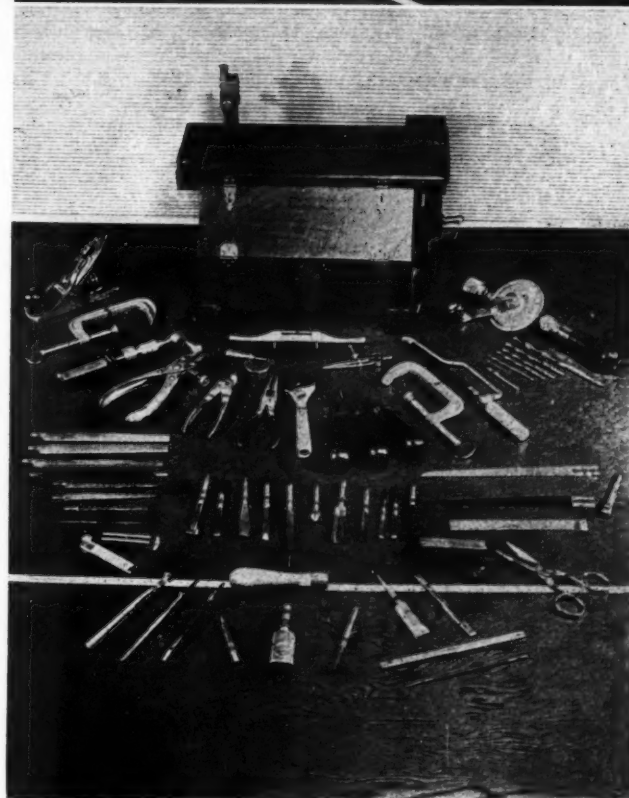


and that of friends were gratis. Perhaps some would vary the tools for different requirements, but use has proven that as now assembled the list is about complete. It can be carried about anywhere one goes, if necessary clamped to the running board of the car on vacation trips, and fills many wants other than that of gunsmithing.

A larger bench along similar lines has been made up, with a somewhat different set of tools, for another purpose, and is most satisfactory, but I really like the smaller set the best, and with it have done the most work. The tools are all painted with a distinctive marking, so that if mislaid it is easy to see where they belong; and an attempt is made to always keep them put. The same tools with each single tool separately handled would take up space at least three times that required for this kit, the detachable handles being the real secret of its compactness. Of course many changes are necessary to fit the tools in the handles for different operations, and work is slow, but one can with this apparently tiny kit turn out work, and this is one thing of which it may be truly said "you *can* take it with you."

The list of tools is as follows:

- Yankee No. 1430 Ratchet Drill. This is only 10 $\frac{3}{4}$ " overall, and takes down for stowage.
- 6 drills for the above:  $\frac{1}{16}$  to  $\frac{1}{4}$ . The  $\frac{1}{4}$  drill will also fit the handle.
- Stanley No. 1 Plane  $5\frac{1}{2}$ ", cutter bit 1 $\frac{1}{4}$ ".
- Marples 7" boxwood spokeshave.
- 2 light 4" C-clamps (to fasten bench).
- 1 hacksaw frame with smaller size thin blades.
- Rosewood split chuck handle with taper, square hole in base (holds tools).
- 3" carborundum stone—one edge rounded for gouges.
- 7" Goodell Pratt Hacksaw blade and 8" compass saw blade. Either fits in an attachment that in turn fits into handle.
- 6" fine wood saw blade.
- 6" Diamond alloy wrench (adjustable). Mainly used to unscrew the metal vise.
- 5" Electrician's snips. Will cut light metal readily.
- Claw tack extractor. This is often a very useful tool.
- Very fine prickler—made from an old dental instrument.
- Metal countersink,  $\frac{5}{16}$ ".
- No. 36 Stanley Caliper Rule—6", 2 fold.
- 4 firmer chisels:  $\frac{1}{8}$ ",  $\frac{9}{16}$ ",  $\frac{1}{2}$ ", 1 $\frac{1}{16}$ ".
- 4 gouges:  $\frac{1}{8}$ ",  $\frac{9}{16}$ ",  $\frac{3}{8}$ ", and  $\frac{1}{2}$ ". The  $\frac{3}{8}$ " chisel is nearly a flat sweep.
- Buck's  $\frac{3}{8}$ " cold chisel.
- Metal & Wood 4 sided reamer.
- 1 small sight screw driver.
- 5 screw driver bits:  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{32}$ ",  $\frac{5}{16}$ ", and  $\frac{7}{16}$ ". The last is for big screws.
- 2 drift punches.
- 2 thin hacksaw blades.
- 3 checking tools: single cut, double cut, and spacer. For ease in handling, these are permanently handled as the delicate touch necessary for checking can hardly be obtained with the heavier handle.
- Skrooz-On Handle (holds files and many of the tools).
- Small flat pocket oiler.
- Hammer head (fits handle). Weight 6 oz.
- 6" Klein Pliers—slim round nose with side cutter.
- 5 $\frac{1}{2}$ " Combination Pliers.
- 6" Bernard Parallel Jaw Pliers with set screw. Used as a hand vise.
- 3" Starrett center punch.
- Keuffel & Esser 2' folding steel rule, 8 fold.
- 6 files, all Nicholson: Needle file, 3"; Warding, 4"; Triangular, 6"; Half Round, 6"; Slitting, 4"; Crossing, 4".
- $\frac{1}{2}$ " Brown & Sharpe Micrometer.
- 2 cabinet rasps—Nicholson 8", medium and fine.
- 3" Starrett Spring Dividers, with nut.



# This Handgun Game

By WALTER F. ROPER

## One or Two-Eye Aiming

**B**EFORE A NEW SHOOTER PROGRESSES very far in his efforts to become a good shot he is certain to be asked whether he uses both eyes in aiming, and as in most cases those who bring this subject up are those who do use both eyes, he will be told that he'll never get anywhere until he learns to shoot with both eyes open. I have wanted to give my experiences in this matter for some time but have not done so as I had no proof that two-eye aiming was OK for some but decidedly harmful for others. I was sure, however, that in my own case there was something about the use of both eyes that prevented me from sighting as accurately as I could with one eye, and I determined by the rather costly method of having many special glasses made that it was not a matter of correcting the vision, in the ordinary meaning of the word.

The answer to this problem has been finally obtained by the scientists at the Dartmouth Eye Institute. In an effort to find out how we "see things," and what kind of pictures our brain takes of things seen by our eyes, they discovered that in many individuals, regardless of the glasses worn or the absence of them, the pictures by the two eyes are quite different in both size and shape. Nothing discovered by the doctor who fits your glasses in the usual manner can tell you whether you have this peculiar difficulty or not. In any event, if one who has this trouble attempts to use both eyes for any such job as sighting a gun the two unlike pictures of the sights and target will prevent him from doing any accurate sighting, and actually cause more serious trouble such as headache, nausea and nervousness.

Attempts to cure the trouble by ordinary glasses made to make the image seen by each eye sharper simply aggravate the trouble, as the conflict in the brain is made just that much greater. Getting back to our shooting problem, it is evident that if a shooter is afflicted with this "Aniseikonia" he will do far better shooting if he uses only one eye. One who does not have the trouble can use both if he wishes. No one aside from the scientists who are fitted up to discover whether you have eyes that form equal images on the brain can tell you whether you should—if you want to—use both eyes or whether you had better let one do the whole job. Incidentally, the fact that this trouble has been found to cause serious nervousness may have something to do with the buck fever many shooters experience on the firing line, for certainly no more intense effort to make the eyes work alike can be imagined than that during aiming.

## A Couple of Worthwhile Bits of Home Gunsmithing

I imagine that a good many thousand users of the Woodsman and M. T. Woodsman have wondered why the manufacturer didn't make these guns so that when the magazine catch is released the magazine will spring out a little distance so it can be removed without clawing

at it with the thumb nail. The idea isn't anything new, for the magazine of the .45 and that of the Luger pop out in a most pleasing manner. On the Woodsman and MT this action is especially desirable, for if the gun is fitted with real stocks that carry the bearing on the back strap to the bottom of the hand, where it should go, the magazine is encased somewhat by the extended stocks, and an automatic kicker-out is most desirable. And, fortunately, it is easy to have.

If it is worth the 10 cents a small round file will cost at the five-and-dime store, you can fix it up yourself in about ten minutes. Here's the way to do it: First, push the magazine follower down into the magazine with a match or screwdriver until the button on the side of the magazine is opposite the enlarged place in the slot in which it runs. Now just pick it—the button—out. It isn't screwed in, so all you need do is to pull it out. This will let the follower out of the top of the magazine along with the spring, and now with the round file simply lengthen the upper end of the slot in which the button travels, about an eighth or three-sixteenths of an inch. That is all there is to the operation, and you can put the magazine back together again and it will jump out when the catch is released in a most workman-like manner. It might be a good idea, while you have the insides out of the magazine, to give them a cleaning and a little oil, as a good-working magazine is decidedly worthwhile in an automatic.

Now for another desirable improvement.—Most modern automatics are so made that the slide will stay back when the last shot is fired, and it is a mighty good feature. Most always this action is obtained by a separate button as in the Hi Standard, but it is possible to have it in the Woodsman and MT in a most simple manner without the addition of a single part. The slide will stay open after the last shot has been fired, and if you will then simply push up the slide lock before you remove the magazine—something that will become a habit if you do it a few times—you can have the advantage of this feature on your present gun—and without its costing more than a few cents.

First of all, consider the members of your club, and pick one who has an upright drill, or works where there is one. Now take out the follower from your magazine as explained before, and ask this man to drill a hole through it, eccentric with the hole into which the button fits, and large enough so a hole for the button can be put through the plug he will put in—about a sixteenth of an inch nearer the bottom of the follower. That's the whole job, for that will let the follower stand a sixteenth of an inch higher when the last cartridge is fired, and the slide will stop against the back edge of the follower when it tries to go forward. Of course when you remove the magazine the slide will slam shut, which is why you should learn to slip the slide lock up before you remove the magazine. But if you will do that you will have a slide-stay-back gun that will work as well as any.

# ELEMENTS OF RELOADING

## FOR THE RIFLEMAN

By J. V. K. WAGAR

### PART I. RELOADING THE SIMPLEST CARTRIDGES

WHAT IS A RIFLEMAN, now that the following elements of reloading are already labelled *For the Rifleman*?

My dictionary reads, "One armed or skilled with the rifle." Armed and skilled would be better, for an unskilled rifleman is ineffective, and an *ineffective* rifleman in target shooting is unfortunate, in game shooting is brutal, and in national defense may contribute to national disaster.

A shooter who merits the name "rifleman" is, then, one who is skilled or efficiently acquiring skill; and I have yet to meet many riflemen whose understanding of the shooting game is great, or whose interest is more than a passing fancy, who have never reloaded ammunition for at least one of the following reasons:

1. To see just what there is to the reloading game.
2. To more capably understand the history, development, and principles of cartridges used in rifle shooting.
3. To follow a hobby which combines a need for mechanical skill and understanding, which has an excellent and continuing literature, and which combines indoor work with a pleasurable and beneficial outdoor recreation.
4. To provide a handcraft outlet with distinct therapeutical values for those who work chiefly under high mental tension.
5. To provide, or prolong the usefulness of, ammunition for obsolete rifles which one may wish to use.
6. To increase the usefulness of and one's familiarity with a favorite rifle otherwise used only for a big game hunt or some other specialized purpose each year.
7. To provide ammunition of special types not available on the market.
8. To increase the amount of shooting possible with funds available.
9. To save money?

The saving of money so often claimed for reloading is a thing to be thoughtfully studied. If one enthusiastically buys \$40 worth of reloading tools and components, reloads 500 cartridges with them, and then sells his outfit for \$20, his cost for the ammunition which he has shot is 4¢ per shot. If one buys the enthusiast out for \$20 and loads 4,000 cartridges with the outfit, his cost is but 1/2¢ per shot. The beginner will do well to balance intentions against investments if he will avoid the kidding of relatives and the torment of conscience.

It has been my pleasure to help many men to get started in elementary reloading and to cooperate in some details as they became experts. The above nine reasons for reloading are taken from their purposes and accomplishments. To my knowledge no mishaps have attended the loading of hundreds of thousands of rounds loaded by well over

100 different men whom I watched develop from beginners into riflemen. I ask no credit for their successes and have learned from them much that will be set down here for other *beginners*. This is no treatise for the expert, and we plan no fireworks for the venturesome. We simply intend to produce assuredly safe and dependable and reasonably accurate ammunition with the least expenditure of time, money, and effort.

The present series on rifle cartridges follows the series on Elements of Reloading for pistol cartridges appearing in the October, November, and December, 1940, and February, 1941, issues of THE AMERICAN RIFLEMAN and will duplicate the excellent information given there as little as possible.

One last admission should be made to those who would like to shoot reloaded ammunition, yet are hesitant to begin reloading: professional reloaders exist who will reload empty cartridge cases at a saving in comparison with factory cartridges. The best of such professionals use the latest and most modern equipment, make safe ammunition, advertise in this magazine to solicit business from critical AMERICAN RIFLEMAN readers, and are often mentioned in the Dope Bag and other columns. If tempted, contact such specialists, send them empty cartridges (which we call cases) that will assuredly fit the rifles in which they are to be fired, and don't insist upon unreasonable loads.

#### The Simplest Cartridges

Cartridges were originally designed to make shooting components (powder, bullets, and caps) come out even and to save time in charging muzzle loading rifles; later to seal the breech and to so create successful breechloading rifles, and still later to create rifle charges capable of being so stored within rifle mechanisms and so handled by the machinery of rifle actions that repeating rifles could result. Cartridges began as paper, cloth, or skin containers to hold powder and bullets together and developed into copper and brass containers giving rise to the name metallic cartridges. Most fired metallic cartridge cases are reloadable, are expensive in proportion to the size and intensity of the cartridge, and represent in their value the chief difference between buying new cartridges and reloading spent cases.

One of the simplest metallic rifle cartridges is the .50 Maynard percussion cartridge of 1865. This is a simple brass cartridge case into which is loaded enough black powder to hold the bullet out where it belongs; and with bullet, barrel, chamber, and case dimensions such that a proper bullet fits the cartridge case friction tight. No priming is placed in this early Maynard cartridge, for it is fired by a musket cap placed upon a breech nipple which fires the cartridge through a breech tube aligned with a small flash hole in the cartridge base.

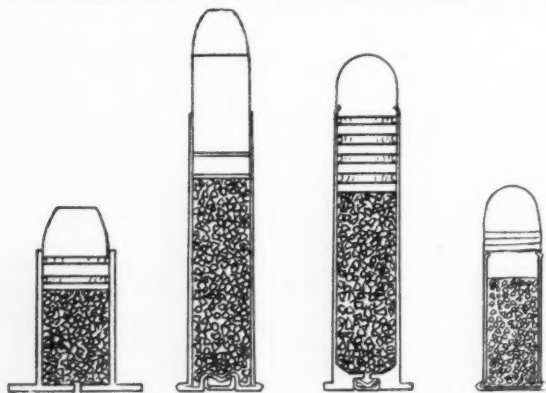
Some of my old gun books written in the 1860's speak of the Maynard as a much safer cartridge than self-exploding types containing a combination of priming, powder, and bullet to which we are now accustomed.

Reloading tools are not ordinarily necessary for the .50 Maynard cartridge. One needs only a 50-caliber mould making bullets of 300 to 350 grains, lubricated in the grooves with tallow, and forced with the fingers in upon 40 grains (weight or bulk) of F.G. black powder, which is coarse enough to burn clean in this large caliber and to not run through the flash hole. Many riflemen owning good Maynard percussion rifles as relics can have much enjoyment with them. If not obtainable, cartridges may be turned out of solid stock or made of tubing and flat brass of proper sizes soldered together. Firing pressures are low and all operations simple.

Next in simplicity are rim-fire cartridges in which fulminate is flowed or spun by centrifugal force beneath hollow rims. It is often asked if such cartridges are reloadable, and the reply must be that it is possible but decidedly not practical to reload such cases. Made of thin metal to permit ready pinching of the rim by the firing pin and for economy in material and manufacture, they often rupture if fired more than once, need the pinched rim expanded to its original shape for firing certainty, and usually swell upon firing to such a tight chamber fit that they cannot be inserted with certainty when next used. The reloading of rim-fires is a nuisance, is poor economy because of the cheapness of factory cartridges, and is very dangerous because one must mix fulminate in quantities and because once-fired reloaded rim-fire cartridges frequently go off as they are forced into the chamber. Although simple in principles involved, we do not reload rim-fire cartridges.

The next most simple cartridges are the early central-fire cartridges designed for use in single-shot rifles. Practically every rifleman comes upon these at some time or other and becomes familiar with commoner ones such as the Ballard .32-40-165, .38-55-255, .40-63-330, .40-70-330, and .40-85-370. Maynard rifles are often seen in .22-10-45, .25-20-86 S-S (Single-Shot), .32-35-165, and the thick-walled 1873 and 1882 cartridges such as the .35-30, .38-50, .40-40 and larger sizes. Typical Reming-

*Left to right: .50 Maynard; .45-75-420 Sharps 2-1/10 with paper-patched bullet and grease wad between two card wads at bullet base; .45-75-405; .44 Long rim-fire*



ton cartridges were the .32-40-150, .38-40-250, .38-50-250, and the various Sharps cartridges. Sharps rifles were well known for the .40-50-265, .40-70-330, and .40-90-370 SS. or B.N. (Sharps Straight or Bottleneck); for the .44-77, .44-90 and .44-105 B.N. with bullet weights from 450 to 550 grains; for .45 Sharps Straight cartridges with 2 $\frac{1}{10}$ , 2 $\frac{4}{10}$ , 2 $\frac{6}{10}$ , 2 $\frac{7}{8}$ , and 3 $\frac{1}{4}$ " lengths; and for .50 Sharps cartridges with 2, 2 $\frac{1}{2}$ , and 3 $\frac{1}{4}$ " lengths.

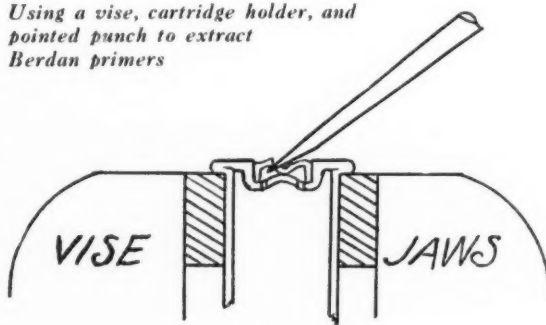
In these black powder cartridges designed during the 60's, 70's, and 80's, the directions for reloading were almost written in the cartridge name or upon the box in which they came. The first figure in each designation gave the bullet diameter in a decimal fraction of an inch, the second figure the grains weight of black powder, and the third figure the bullet weight in grains. Such cartridges as first made were primed with Berdan primers and later with anvil-containing primers typical of modern American cartridges.

The length of any black powder cartridge was determined by its form—whether straight-sided, tapered, or bottlenecked, and by how much wadding or bullet was to be loaded into the case in addition to a desired powder charge. The .45 and .50 Sharps cartridges made in different lengths were so varied to permit riflemen to buy guns chambered for whatever cartridge lengths would contain powder charges most suiting their needs. It will be noted that some Sharps sizes were available in either straight or bottlenecked cases; the straight cases giving reputedly better accuracy with black powder and the shorter, more tapered, necked cases better extraction.

It was, and is, not necessary to hold bullets into these early single-shot cartridges by crimping (forcing or turning the mouth of the shell into the lead alloy bullet). Bullets, many of which were paper patched, were held by friction alone, secured by a snug fit between the case and the bullet. Most rifles were chambered snugly enough so that fired cases would fit proper bullets tight enough to hold them with reasonable security. In single-shot rifles, only one cartridge is loaded into the gun at a time, and so the discharge of one cartridge does not jar the bullet from a cartridge in a second barrel as in double rifles, or from cartridges in tubular or box magazines, which might jam repeating rifles.

About the last single-shot, black powder, rifle cartridges introduced were the Stevens .22-15-60, .25-21-86, .25-25-86, .28-30-120, and .32 Ideal (.32-25-150) cartridges, which typified all that had been learned in black powder

*Using a vise, cartridge holder, and pointed punch to extract Berdan primers*





days. With straight (truly tubular) case interiors, bullets are held in perfect axial alignment. Of a good weight of brass, the cases are durable. With snugly cut chambers, fired cases continue to hold bullets securely without crimping and without forcing the case mouths into dies to reduce their diameters. No special loading tools are needed for such cartridges used only for hunting. I still use the .25-21 and .32 Ideal sizes a great deal, and have never owned tools for them. The .25-21 cases are primed in a .25-20 S-S. tool and .32 Ideal cases in a .32-20 tool; both tools old Winchester nut-cracker types. Bullets as cast in moulds of a suitable size are pushed into such cases with the fingers and seated upon the proper amount of black powder.

Such reloading, without a bullet seating tool, will not sound like precision work to some, and admittedly all rifle work should be done with the greatest possible uniformity, but with black powder trajectories and the average man's inability to precisely gauge distances over unknown terrain, hunting accuracy with the cartridges thus far mentioned can seldom use to advantage a group smaller than 3 inches for each 100 yards. For the average hunter the .45-90-300 was far more accurate than the .45-70-500, which was superior on target. However, many fine hunters have used early single-shot rifles with but few tools more than are necessary for muzzle loaders, and many riflemen of today enjoy these old rifles because of the simplicity attending their use.

Black powder cartridges for repeating rifles differ from those for single-shot rifles chiefly in having the bullets crimped securely in place. Lubricated grooved bullets were used because paper-patched bullets could not be used crimped and would not withstand extensive handling in magazines. Flat-pointed bullets and seldom-varied powder and bullet charges typified early repeating rifle cartridges like the .44-40-200, .38-40-180, .32-20-115, and .25-20-86 W.C.F., although some will recall the Marlin .44-40-217 version of the .44-40 and the Remington .32-20-100 standard for the .32-20. Flat-pointed bullets were considered safest in simple tubular magazines, and many early actions would not handle variations in cartridge length resulting from different weights of bullets.

Some single-shot cartridges like the .32-40 and .38-55, originally put out with uncrimped paper-patched bullets, were adapted to repeating rifles and loaded with crimped lead bullets. Government-made cartridges like the .50-70 and .45-70 were usually seen with lead bullets securely crimped to permit rough handling, use in Gatling guns, and later (.45-70's) in repeating rifles. However, ammunition factories made both the .50-70 and .45-70

with paper-patched bullets for use in Sharps and other single-shot rifles.

Probably the last black powder repeating rifle cartridges were used in box magazines, and so the .38-72-275 and .40-72-330 could be and were made with rounded, lead alloy bullets crimped into the cases.

### Reloading Black Powder Cases

**DECAPPING.**—Regular decapping plugs made by the loading tool manufacturers are excellent for decapping, but the shooter who becomes the owner of freshly fired black powder cases should not wait, to decap them, until ordered tools arrive. A good decapping punch for anvil-containing primers sparking through a central flash hole can be made of a spike as large as will enter the case. With a file cut the tip of the spike into a pin small enough to enter the flash hole and just long enough to push the spent primer clear of the primer pocket. Then place the case head over a hole to receive the ejected primer, and with the punch just described, drive out the primer. Or secure the primer punch, pin up, in a vise, drop a fired case down over it until the flash hole fits down over the pin, and strike the rim of the case with a block or mallet of wood to drive out the primer.

The beginner usually bends a good many pins by not centering them through the flash hole, and file-cut primer punches are appreciated for their easy replacement. Lathe turned punches with hardened steel pins are, of course, better yet, and are somewhat similar to old Winchester loading tool equipment.

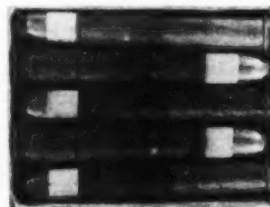
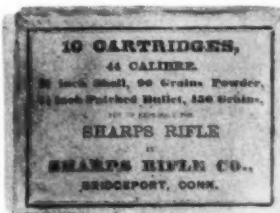
The rifleman who has old Berdan primer cases may get a Berdan decapper with them. Maynard and other very thick brass cases using Berdan primers had central flash holes with raised anvil rims permitting the use of regular decapping pins, but types with offset flash holes need other treatment.

The easiest way to decap old Berdan primers is to bore through a thick bar of mild iron or steel a hole just large enough to seat a fired case clear up to the rim. Secure the bored bar in a good vise, drop a case into it, drive a pointed, hardened steel pin diagonally into the firing pin indentation of the fired primer until the primer is pierced, then push downward on the handle of the pin and pry the primer out.

Early Berdan primer cases were of very thin brass that was not at all durable, and primers to fit them are not always easily procured, but for some old sizes we must put up with them.

**CLEANING CASES.**—Cases fired with black powder must be cleaned as soon as possible. Black powder contains sulphur which combines very (Continued on page 29)

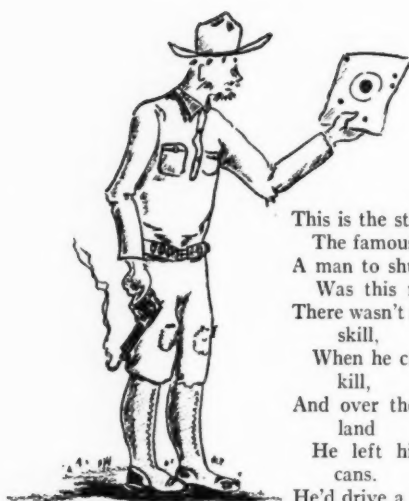
*How some of the old-time ammunition was put up*



# The Sad, Sad Story of Bullseye Potts

By GERALD AVERILL

(Illustrations by Author and son)



This is the story of Bullseye Potts,  
The famous back-woods pistol shot.  
A man to shun and a man to fear  
Was this rootin', tootin' pistoleer.  
There wasn't no question of Bullseye's  
skill,  
When he cracked a cap, he shot to  
kill,  
And over the breadth of his native  
land  
He left his record in punctured  
cans.  
He'd drive a nail at twenty paces,  
From a deck of cards he'd cut the  
aces,

Riddle a rabbit on the run,  
And shoot for marbles, money, or fun.  
Now Mr. Potts had sand in his craw  
To match the speed of his lightning draw,  
So he got a job (you can guess, of course),  
A rooky's berth on the Warden Force.  
They shifted him here and they moved him there,  
His shooting was good, but his work—just fair.  
They rated him as a first class shot,  
But in other ways he wasn't so hot.  
So he worried along from day to day,  
Till they shipped him down to Division A—  
Division A of the crack storm troops,  
With solid gold badges and ducoed boots,  
Silver whistles and chromium lights,  
Officer's Models with special sights;  
Slick and shiny and smooth as cats,  
And ready to fight at the drop of a hat.  
Bullseye Potts looked down his nose  
At his scuffed out boots and his ragged clothes,  
And he thought to himself: "Well, like as not,  
This is the finish of Bullseye Potts."  
But he hitched his belt and raised his head,  
Looked 'em all over, and then he said:  
"I may look like hell to you galoots,  
But, Holy Old Mackinaw, can't I shoot!"  
He grabbed the butt of his Frontier Six,  
And dove down into his bag of tricks.  
He busted bricks and he rolled a can,  
And shot his initials in an old tin pan.  
And the whole division solemnly ruled  
That Bullseye Potts was a shootin' fool.  
Now this crack outfit had hearts of gold,  
And they took him into the inner fold.  
They wound him up and let him run,  
And Bullseye Potts had lots of fun.  
They dressed him up in some brand new clothes,

And cocked his cap down over his nose.  
He bought new boots and a Stetson hat,  
Four new neckties and things like that.

When he strolled forth to take the air,  
The village maidens swooned in pairs.  
Bullseye's heart was almost full,  
With the world by the tail on a down-hill pull,  
But his one ambition and fondest dream  
Was to win a place on the pistol team.

And when at last, in the course of time,  
They called him forth to the firing line,  
He bought some shells and he oiled his gun,  
"And now," said Bullseye, "we'll see some fun.

Them paper targets is jest duck soup  
To a salty guy that can really shoot.  
That big black spot, the size of my hat—  
Why even a blind man couldn't miss that!"

So Bullseye loaded his forty-four,  
And yelled to the coach to watch his score;  
Stepped up to the line and cut down slow,  
Took up on the trigger, and let 'er go.

"Well," said the coach, "you got one then—  
She's in plumb center, a perfect ten."

"Yup," said Bullseye, "I called that shot.  
That old front picket was right on the spot.

Now watch my next one, cause, durn my soul,  
I'm steerin' her straight for the very same hole."

He cocked his gun and he lined her right,  
With that big black bull right over his sights;  
When the center showed on the front sight's tip,  
He squeezed the trigger and let 'er rip.

"Ha!" yelled Bullseye, "No need to look—  
There's another ten for the little black book!"

The coach looked 'round from the spotting scope;  
Says he: "You puffed-up, cock-eyed dope!

If you'll take a look, you can plainly see  
It's a six on the line at half-past three!"

"A six?" howled Bullseye; "I held right in,  
An' pulled her jest to center the pin.

The target moved, or the shells is bad—  
Jest watch the next one, I'm gittin'  
mad!" \* \* \* \*

We will draw the veil over Bullseye's  
shame,

As he shot the wood from the target  
frame,

Plowed up the earth and furrowed the  
air,

While the coach stood by and tore his  
hair.

It was very plain to the target fans  
That Bullseye wasn't a scoring man.

\* \* \* \*

Bullseye's still in Division A—

Looks as if he was there to stay.

Skin-tight breeches, Stetson hat,

Ten dollar holster, forty-dollar gat;

Silver whistle, custom-built boots,

And just beginning to learn to shoot.

(To Be Concluded)



# The Old Coach's Corner

## THE PRONE POSITION

**T**HE ONE GREAT DIFFICULTY that every beginner has when he first tries to shoot a rifle is that he cannot hold it steady. The muzzle wobbles all around, he trembles, and only the most fleeting glance can be had of the sights as they flash by the target. It is at once apparent that nothing can be accomplished until at least a fairly steady shooting position can be acquired.

The prone position is the one which should be learned first, particularly because it is the only position in which you can quickly learn to hold steady enough to co-ordinate a proper trigger squeeze. Although uncomfortable the first two or three days, in a week it can be learned to the point of excellent steadiness. All that is needed is about two ten-minute periods of practice for a few days to get muscles and tendons accustomed to it. The other firing positions take far longer periods of apprenticeship before any degree of steadiness is attained. Last month I advised you to learn the "aim-squeeze" while shooting from a rest. While you are doing that you can also be practicing the prone position to get accustomed to it and comfortable in it. Thus after a week or sometimes less of these two preliminary exercises you are ready for "real shooting prone."

If you have visited any of the large national or regional rifle matches you have been impressed with the fact that it is almost all prone shooting, and moreover that apparently every shooter assumes practically the same position, with almost no individual variation. Indeed there is only one way in which to assume the position which causes it to become literally a mechanical rest for the rifle. In this uniform position you will also notice that every shooter is using the gunsling around his left arm in a certain identical way.

The gunsling must be adjusted to the arm before you lie down, so we will tackle that first. Figure 1 shows the sling adjusted for firing. The exact length of the loop for any individual can be told only by trial, but generally speaking if the sling be drawn taut along the bottom line of the stock the rear end of the loop should extend

to within about four or five inches of the toe of the butt-plate. The front sling swivel on the more modern rifles is also adjustable to the front or rear. These adjustments will easily be learned in the course of the first few days practice. In the absence of a coach, study the illustrations carefully.

To place the sling on the arm, first thrust the left hand and forearm between the sling and rifle at A (Figure 1) and then bring them back through the loop. Slip the loop as far up on the left upper arm as it will go, and pull the keeper up to keep the loop tight around the arm, high up close to the arm-pit. Then grasp the forearm with the left hand, knuckle of the left fore-finger almost touching the front sling swivel, and sling passing to the right of the left wrist as shown in Figure 2. Getting into the sling this way places the flat of the strap, and not its edge, against the left wrist.

Now half face to the right of the target, and lie down on your stomach, elbows holding the chest off the ground, legs spread fairly wide apart, knees straight, and the center line of the body faced at an angle of 45 degrees to the right of the line to the target—never head on to the target. Then keeping the left elbow on the ground, sling on the arm, lift the right elbow and raise the right shoulder slightly, rolling over a little to the left, and then you can place the butt of the rifle against the right shoulder. Roll back to the right, and place the right elbow again on the ground as shown in Figures 3 and 4, and your rifle will be clamped in the firing position with the sling exerting considerable pressure on the left hand and arm.

I next ask you to critically examine and correct this position according to the following description, and using the illustrations as a guide:

You should be lying half faced to the right of the target, left shoulder towards the target. Your left elbow should be almost under the rifle so that a perpendicular dropped from the center of the rifle to the ground will touch the right side of the elbow. The right elbow should

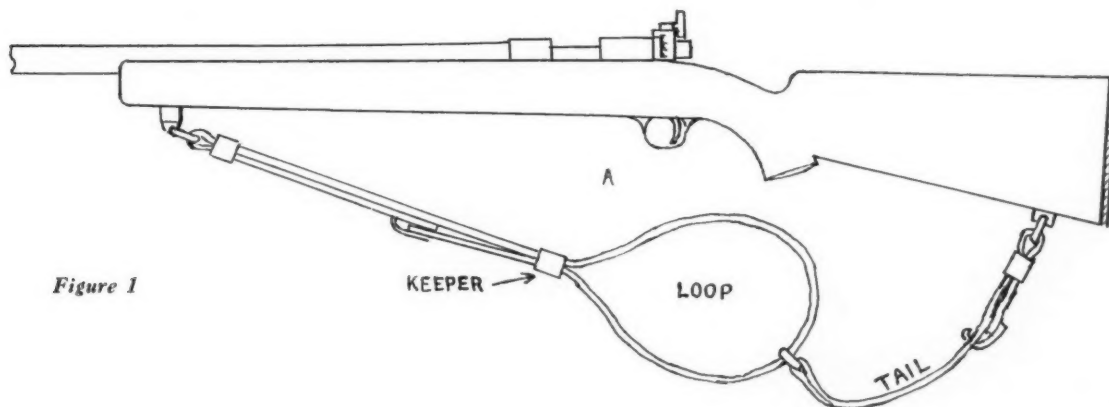


Figure 1

be on the ground, the right upper arm sloping outward at about 45 degrees from the perpendicular. Right hand grasps the pistol grip, right forefinger on the trigger.

The left hand should grasp the forearm just in rear of the sling swivel, forearm well down in the palm of the hand, knuckle of the left forefinger wedged into the angle formed by the sling, the sling swivel, and the forearm. Now spread the thumb and forefinger wide apart, flattening the hand—the rifle should stand truly perpendicular on the palm, not canted either to the right or left. If the rifle is canted when the palm is flattened, do not try to straighten it up by twisting with the hands, but move the flattened left palm right or left until the rifle stands truly perpendicular (i.e., not leaning right or left), then close the thumb and forefingers on the forearm, almost making fingertip contact with the barrel. Under no circumstances must the fingers hold the palm of the hand away from snug and heavy contact with the under side of the forearm. In this position the hand and wrist

will seem very cramped and strained, but the suggested practices will soon accustom you to it. The sling swivel bears hard against the knuckle, and the sling cuts into the wrist, so the experienced rifleman wears a shooting glove on his left hand to protect these points.

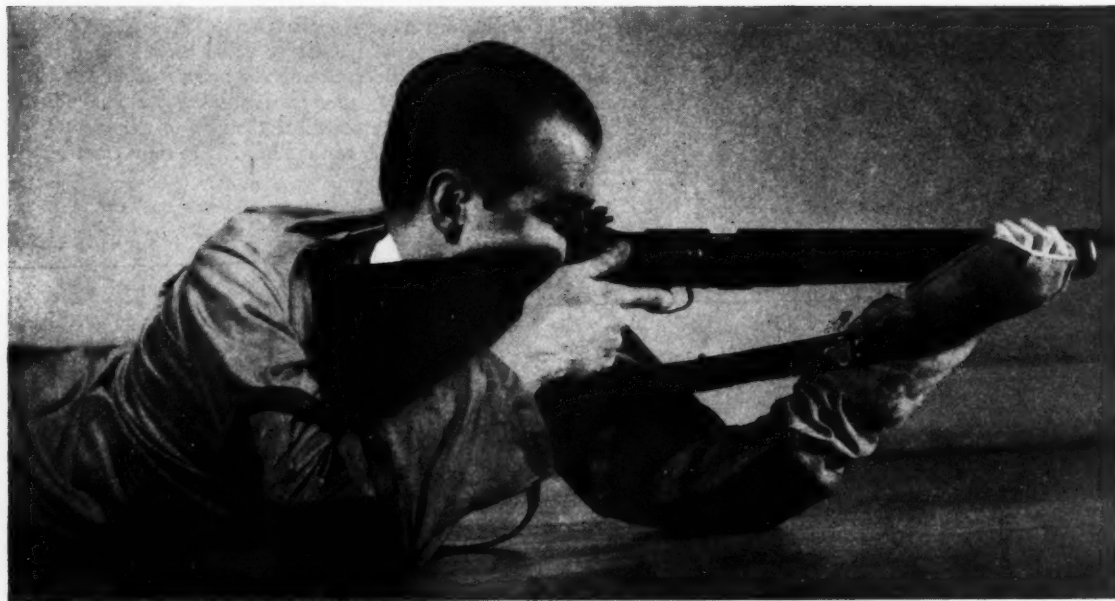
Figure 2



If the front sling swivel is adjustable it should be located so that when the rifle is at the shoulder the angle formed by the left upper arm and forearm will be approximately 60 to 65 degrees. This angle is important. With a short armed man, if the sling swivel cannot be moved back sufficiently, then he must grasp the forearm from one to four inches in rear of the swivel in order that his upper arm—forearm angle is not greater than about 65 degrees.

Starting at the front sling swivel, the two straps of the sling pass to the right of the left wrist, then they separate to form the loop which goes around the left upper arm, the sling position on the back of the arm being as high as it can be placed, well above the swelling of the triceps muscle. Under no circumstances must the

Figure 3





loop be allowed to slip down around the elbow. To hold it up the keeper is pulled down on the loop, and most riflemen use a little gadget called the "Keeper's-Keeper" to hold it there and insure against the loop coming loose on the arm and slipping down.

In this position the sling is very tight, the pressure coming on the right side of the left wrist and the back of the left upper arm. Shooters vary in the amount of tension they put, or think they put, on the sling. Some say ten pounds, some seventy-five. It should be enough to make the position steady, but not enough to make it uncomfortable or to cause trembling. Start with the sling not too tight, and as you get comfortable and used to the position you will naturally tighten up a couple of holes to give added steadiness. After several weeks shooting you will probably be using the sling so tight that you cannot get the butt of the rifle to your shoulder without first raising the right elbow off the ground, and rolling over just slightly to the left. Then the butt is shoved into the shoulder, and you roll back again into firing position, and the rifle is clamped immovable. You then feel almost as if you could sustain a weight of a hundred pounds on top of the rifle. This is about the right tension, and it actually may be about 25 pounds. If you get it too tight you just cannot stand the strain for twenty shots, and you will tremble after five—a little experience, that is all that is needed.

That portion of the sling between the loop and the butt swivel is called the "tail," and it should always be loose and slack with no tension at all on it.

When you lie down on the ground select a spot on which to rest the left elbow, where the ground is level and smooth, or where there is a slight depression. It would be fine to have small holes in the sod just where both elbows came, but digging holes is prohibited on rifle ranges. After you have selected the spot for the left elbow and have gotten into position, see that the spot where the right

elbow comes is likewise level or in a slight depression. To give steadiness the elbows should feel as if they could not possibly slip.

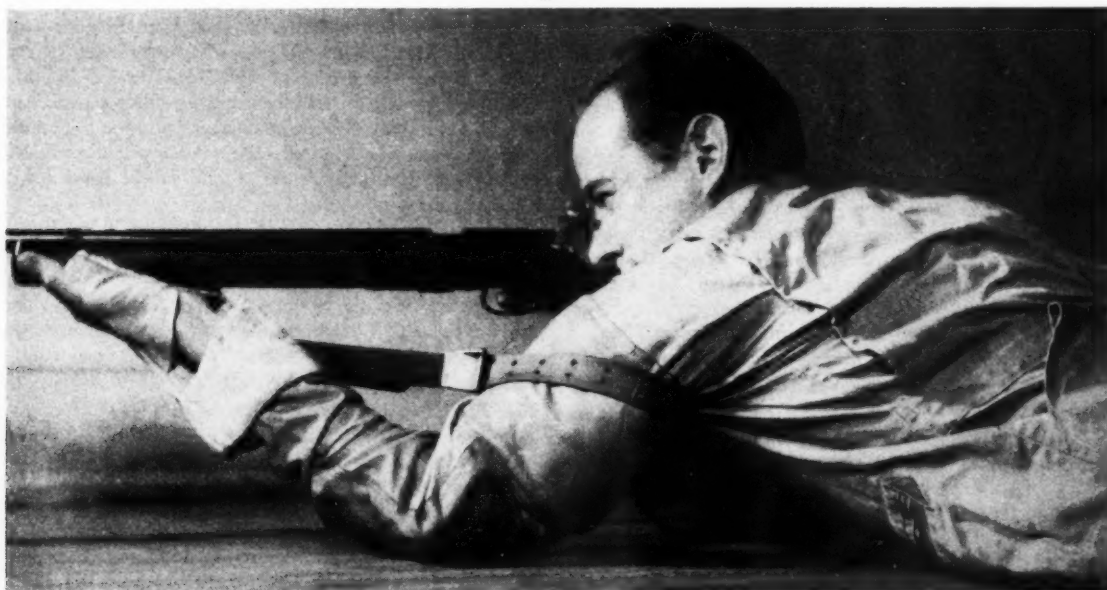
This position will probably be deucedly uncomfortable to you the first time or two you try it, but don't modify or change it to try to get more comfortable. You may let the sling out a little longer if it seems too tight, but that is all. Stick to it. Assume it and lie in it for a couple of minutes. Then get up and rest a minute, and try it again a couple of times. Do this twice a day. About the third day the discomfort begins to wear off, and by the fifth day the strain on the left wrist will not be noticed so much. Wear a shooting glove and coat with padded elbows or your left hand, wrist, and elbows will get very sore. Keep it up and by the end of a week you will find you can aim at a target, and hold the sights on the bull with what appears to be absolute steadiness; and you have arrived. Now you can profitably give up shooting from a rest and begin shooting prone, and paying attention particularly to the coordination of your hold, aim, and squeeze as I described last month.

#### The Fine Points

There are certain fine points about this prone position that you should give close attention to if you wish to obtain really fine scores in competitive shooting.

Direction, that is, pointing the rifle at the target without changing the relative position of rifle and body, is obtained by shifting the center body line to more or less of an angle with the target (move your legs or stomach more or less right or left, pivoting on your left elbow hole), and by slightly altering the position of one or the other of the elbows. Before you start to fire make these corrections as much as is necessary so that when you place your rifle to your shoulder and bring your right elbow down to clamp into position, your sights will be aligned right on the bullseye. They (*Continued on page 29*)

Figure 4





*The Enfield is highly efficient as is if you learn to use it*

# Evolution of a Coyote Hunter

By CLEON B. SKILLMAN

I KILLED MY FIRST COYOTE with a .22 short at about thirty yards. I was about 16 years old then and going through a hill corn field in summer time. On the uphill side a hawk sat on a post well above the field . . . a legitimate target, but a prairie dog was barking below in the pasture and I let mister hawk go to stalk the dog. Inching along the fence row back of the sunflowers I could glimpse the dog now and then and hear him chattering at something beyond the burrow. I had just poked my gun through the weeds and settled into a good shooting position when the dog ducked and a coyote raised his head and looked over the bank. Immediately he turned around and started digging and all I could see was his back quarters. A moment of this and the dog chattered from within the burrow and the coyote raised his head. Then I could see two thirds of the way down his side, and with the bead back of his elbow I let'er go. He gave a grunt and disappeared over the bank. He lay about fifty yards beyond, gasping his last. It looked as if the bullet had gone through his heart.

I owned a sixteen gauge Zulu then, and as time went on and I grew older it became the nucleus of a collection of old timers. Eventually there came an 1873 Springfield carbine .45-70 caliber. I shot at several coyotes with it before connecting with one. Then one morning a coyote came in to the lot for a chicken, but became frightened before making the catch and ran back into the pasture, while I turned a closet upside down getting gun and ammunition together. I did not expect to see that coyote again, but about a quarter-mile from the house he ran from some tall grass into a draw. Beyond, the draw leveled out and if I could gain a prominence ahead and to one side I would have a view ahead. I reached the high place, breathless, and there went the coyote, loping along with apparent unconcern. From a sitting position with both elbows on my knees I tried to control my breathing enough to steady the old gun, but when she roared, a geyser of dirt spouted over the coyote's neck, and my impression was that I had shot in front of him. But no. When his front feet touched the grass his back sailed up and he turned a high somersault. His tail threshed the ground and dust arose where he kicked aimlessly in the dirt. The slug had passed squarely through his neck.

I killed six or eight more with the carbine at ranges from seventy-five to one hundred twenty-five yards, stalking them mostly after they had caught chickens. One instance will be of interest because of the sequel. A trait of a chicken stealing coyote is, that after catching his prey he will take it to an out-of-sight, out-of-the-

way place to devour it. Scattered feathers show where he made the catch, more feathers where he enjoyed the meal. This coyote caught a chicken in the evening. Chickens flew from the weeds a quarter-mile up the draw and I saw him come out and pick one up. He stopped to look, spotted me, and dropped the catch and ran about fifty yards. I froze in my tracks, and after taking a good look at me, during which I did not move, he came back and picked up another chicken. With the catch in his mouth, he stopped to watch me several times before going out of sight. I knew pretty well where to go, for chickens had been eaten in that vicinity before. A light breeze was in my face, and under the brow of the hill from where I expected to locate him I dropped and inched over the top on my stomach with the gun ahead at arms length. But this old dog coyote was suspicious. He had eaten only the head of the chicken and left the body in a depression, and was standing about seventy-five yards farther on watching for me. He stood undecided as to what the object was that had showed up, and from prone I thought I had him dead right, but at the very instant I pulled the trigger he started off. The bullet caught him and turned him end over end. He was down threshing the ground as I got on my feet. Then he was up, and while I fumbled getting another shell into the single loader he went over the hill with one leg flopping uselessly.

Many people came to see my old time firearms, and one day a man asked: "Where are your modern guns? What do you shoot coyotes with?" I handed him the .45-70. "My goodness!" he exploded, "You don't use this lead slinger? Get yourself a modern gun. You are a member of The National Rifle Association, and that Enfield is a whale of a gun." And so the Enfield was my first real gun.

With a box of 110 grain Kleanbore cartridges, I took it in my car and went to the hills to sight it in. I had not gone a mile when I saw a coyote about two hundred yards above on a ridge. He must have been asleep, and raised up on his forelegs to look at the car, then immediately sank down and all I could see was his head against the sky. I dared not shoot over the ridge, so I maneuvered the car to a higher position at about the same range. It was hard to define his exact position from here, but I had him pretty well located. I had the notion that the .30-'06 had plenty of recoil, so with a tight hold I let her go, and the bullet kicked dirt ten or fifteen paces my side of the coyote. The recoil was light—not near as heavy as the .45-70 or a tight-bored 12 gauge shotgun. Without going farther I targeted the gun, and found

the sight had to be set at 200 for 100 yard shooting.

After I got the Enfield, coyotes continued to pick up chickens about the place, and I was not enthusiastic about the gun until I shot one with it. Half-heartedly I carried the rifle to the barn with me each morning at daylight, thinking I'd be better off back with the old gun. Then one morning a coyote ran out from among the horses and stood broadside to me about two hundred yards over on the side hill. I slipped the sight to 300 and figured I'd better hold high, and shot square over his shoulder. The next shot too was high. He was leaving the country in a hurry now, and went across a small draw, and as he came up on the opposite side, going directly away from me, the third shot caught him in the neck just above the shoulder blades. The impact of the bullet sounded as if a flat rock had been dropped in the lake. It went through the neck and head and made mince meat of a place about two inches in diameter inside. I picked the copper case of the open point bullet from his lip under the nose. Right there I decided this was more gun than I had ever had anything to do with before. The next coyote took three shots to bag, and with these experiences I decided I'd better get acquainted with my gun, and took to shooting prairie dogs and jack rabbits. It's all right to pot a dog, for after a shot or two in a town they will give you plenty of distance. But a rabbit is a moving target and I never try for them except on the run.

It was a year later that I spotted a coyote on the hill back of the barn one morning. Later I found he had been eating a rabbit there. I knew the range pretty well, and took a steady sight from the sitting position, and got him. There was a commotion in the weeds, and another coyote that had been lying nearby tore away. I led her slightly and got her with the next shot. My wife came from the house, and it was one of the proudest moments of my life as I tried to tell her with nonchalance that I had doubled on the pair. The first shot was 298 steps and the second about fifty yards farther. And here is the sequel to the one that I wounded almost two years before. The stifle joint on one leg of the dog of this pair had been shattered sometime and grown in a crooked position four inches shorter than the other one.

A coyote is a shrewd proposition. His senses are highly developed and he is intelligent enough to profit by experience. I shot three females away from a shy old dog before I got him. He'd pick up a mate and lead her up to make the catch while he would stay back and beat it on the slightest suspicion of human presence. I'd see his tracks in cow paths and they were as large as a good sized dog's. I had several glimpses of him, too, and he was big. Chickens that roosted out would go through the stock corral and into the pasture for hoppers early in the morning, and I'd most always take the gun to the barn with me as I went out. This morning I had put it inside, when I saw a coyote come around the shoulder of the hill about 200 yards distant. Slipping in at the side door I eased the muzzle around the corner so as to make as little movement as possible, when I noticed a dark shape by the fence farther on. It was the big dog. The light was still poor and the shot was more luck than good holding, but when the impact of the bullet came back I knew he was through.

The longest shot I ever made was on the day before Christmas. While feeding the cattle I located a coyote wandering around in the pasture, apparently hunting rabbits. Later I went looking for him horseback. There was fresh snow on the ground and riding along below a ridge so that I could only see over I located him again, still hunting leisurely on a distant side hill. My saddle horse is hot blooded and I never have been able to get him accustomed to a gun. Over the hill and out of sight, I tied one of his front feet up to the saddle horn, as I intended to ride home after the shooting was over. Much snorting and stamping always preceded this method of 'staking him out,' but it's efficient, for he can not travel far on three legs. At the brow of the hill I slipped in behind a soap weed. It was snowing hard and visibility was poor but the coyote was still hunting over there, unaware of my presence. Then he started in my direction, and came on until he disappeared in the draw. I slid over the top and figured we'd meet there at close range. I saw him at about one hundred yards through a pocket, and altered my course to bring me to where I thought the meeting would take place, but he didn't show up.

Looking against the storm, I located him again on the side hill where I first saw him, running as if he had seen a ghost. I took a hasty sling, and from the sitting position with elbows on knees, I had him pretty well lined up when he stopped and turned sidewise to look back. He looked small between the ears of the front sight and I figured he was farther than I had the sight set for, so I held a little over, making a mark across him with the front sight, and squeezed her off. He went away in long bounds at a right angle to his former course, and disappeared in a pocket. I came very near not going over, knowing it was easy to misjudge at that range. But I went . . . I wanted to see where that bullet had gone. Its mark was in the snow directly over where the coyote had stood, and about six feet beyond in the bank. I could not figure how it got there without going through him, but there was not a trace of blood on the snow. I followed his tracks, and a fleck of red showed, then another and another. He lay crumpled in his tracks where I had seen him disappear. I did not step the range because of drifts. The cartridge was an MI with the point ground off to the lead. It took him through the deepest part of the chest, up only two inches or so from the bottom, and it did not expand at all.

*Another chicken-catcher out of circulation. The .45-70 carbine did this job*





BRIDGEPORT, CONN., APRIL 1941

# Rifle Remington

## Shattered Smallbore Records Forecast With Phenomenal Grouping of 'Palma Kleanbore' & 'Targetmaster'

Year after year, more and more smallbore records tumble. Improvements in shooting technique, plus larger numbers of shooters, are chiefly responsible. But the development of finer equipment, like the New Model 37 rifle, and of ammunition like Palma Kleanbore and Targetmaster, have contributed considerably to the setting of new records. The 1941 Palma Kleanbore and Targetmaster loads are consistently delivering almost incredible accuracy and uniformity at all ranges, indoors and outdoors.

### For Shooters With "Choosy" Guns

If your gun is fussy about what you put in it—if it shoots splendidly with one ammunition and poorly with another, try some Palma Kleanbore or Targetmaster in it. If you insist on Lesmok—Remington still has Palma Match—the tried and true favorite.

### Look at the Record

Surest proof of the results you can get with Remington ammunition are the shooters who use it, and the matches won with it. For years Remington ammunition has been top choice at the biggest smallbore matches. This year it promises to be an even greater favorite than ever before. Try some—and watch how you stay in that X-ring.

## HOW BULLETS ARE MADE For REMINGTON MATCH AMMUNITION



For match accuracy, bullets must be perfectly round, of uniform density, of proper length and shape, and free from even the smallest imperfections. And that's the kind of bullet you get in Palma Kleanbore and Targetmaster ammunition.

Bullets are individually gauged by machine for correct length and diameter. The swaging operation shapes the bullets under pressure to exact measurements and uniform density. Lubrication (prepared under exclusive Remington formula for maximum performance) eases the barrel travel of the bullet.

Above, a research expert photo-micrographs the interior structure of bullets, an important phase of developing fine bullets.



## WHY DAN'L BOONE WRAPPED HIS BULLET IN A LINEN PATCH

One of the reasons for the amazing accuracy of the famous "long rifles" used by early American frontiersmen was the method of loading.

After the powder charge had been measured and poured into the rifle barrel, the shooter placed a linen patch over the muzzle of the gun. The bullet was placed on this patch and pushed down flush with the end of the barrel. Excess cloth was trimmed off with a knife, and the bullet, wrapped in linen, was rammed home.

The result of this process was that the linen patch cleaned the rifle bore when it was pushed down with the ramrod, so that each shot was fired out of a clean barrel.

Modern shooters fire each shot out of a clean barrel, too, when they use ammunition with Kleanbore priming. There is no powder fouling building up from shot to shot, with the resultant falling off of accuracy. What's more, there is no need to clean your barrel when you use Palma Kleanbore, or Police Targetmaster.

## A message to "EXPERTS" who would like to be "MASTERS"

You'll probably agree that the two things that will do most to step up your NRA rating are . . . better holding, and better squeezing.

Proper stock design is a great help to tight holding. If you haven't tried the Model 37 with the "tailored" stock, by all means do so. The high, thick comb; the shape, design and position of the pistol grip, and the longer, fuller fore-end are all boons to steady holding.

As for trigger squeeze—wait till you try the Miracle trigger on the Model 37! There's no back-lash whatever! Think how that will help your scores!

## POSSIBLES and IMPOSSIBLES

by FRANK J. KAHR



I've mentioned this before—but it's worth mentioning again. That Model 513T Matchmaster rifle ours is the perfect rifle for shooters just taking up the smallbore game; for shooters who want really fine target gun at less than half the cost of its big brother, the Model 37; for youngsters and the fair sex, who may prefer nine pounds weight to the 12 pounds of the Model 37, and for off-hand shooting.

Just learned from one of our shooting friends in Baton Rouge, Louisiana, that they have started night training course for teaching the fundamentals of sighting, aiming, positions, and other phases of rifle shooting. Meetings are every Thursday night between 7 and 9:30, and the program will include shooting on both indoor and outdoor ranges.

Incidentally, a Louisiana Rifle and Pistol Association has been formed just recently, thanks to the concerted action of a spark plugs in that state who wouldn't give up.

Some of our shooting friends down on the delta report an interest in their target shooting booth at the Southern Sportsman show in New Orleans.

The recent Mid-winter Mid-Small Bore Rifle Tournament in Tulsa, Oklahoma was a great success. This was the first match in the Mid-west which included both 50 and 100 yard shooting on the program. We sure it turns into an annual affair because the fellows who attend year will want to come back—leaving their friends.

As we write this, a late blizzard is filling the air with snow up in Bridgeport. But we don't care because our bags are packed and we're starting for Florida in the morning! After the Mid-winter Matches at St. Petersburg, famous decamping for Chicago, to the big Matches there.



"PALMA KLEANBORE," "TARGETMASTER," "MATCHMASTER," "KLEANBORE"

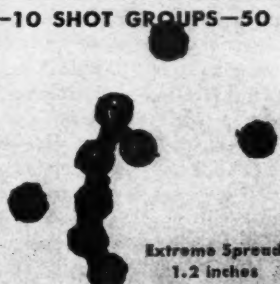
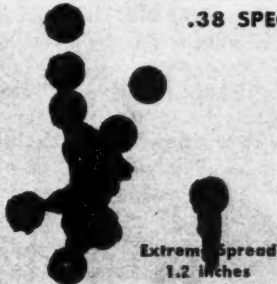


## HERE'S THE KIND OF PERFORMANCE THAT MAKES PISTOL SHOOTERS CHOOSE "TARGETMASTER"

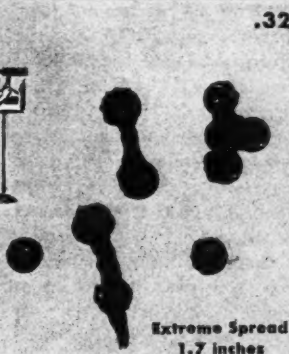
### .45 AUTOMATIC—10 SHOT GROUPS—50 YARDS



### .38 SPECIAL—10 SHOT GROUPS—50 YARDS



### .32 S. & W. LONG—10 SHOT GROUPS—50 YARDS



### .22 RIMFIRE—10 SHOT GROUPS—50 YARDS



The groups shown above were fired with ammunition picked at random during the loading operation at the Remington plant. They are part of the continuous routine of inspecting, teaching, checking and rechecking that keeps Remington match ammunition up to the high standard for which it is famous.

"Targetmaster" is made especially for match pistol and revolver shooting. A spe-

cial fast burning powder is used, which insures more complete combustion in short pistol and revolver barrels. This not only gives better performance, but also greatly reduces the annoyance of muzzle flash (especially objectionable in indoor shooting). "Targetmaster" center fire ammunition is made Oil Proof by a special Remington process. And it has the original Kleanbore non-corrosive priming, found only in Remington

ammunition. Remington match pistol ammunition consists of .45 Automatic, .38 Special (with either wad cutter or round nose bullets), .32 S & W Long, and Police Targetmaster .22 long rifle.

Step up your average in 1941 by shooting Targetmaster ammunition. Made with both sharp shoulder (wad-cutter) and regular bullets.

# CONDITIONING

By CAPT. R. C. ANDREWS

SHOOTING REQUIRES LESS PHYSICAL ACTIVITY than any other outdoor sport that comes to mind, and yet it is more comparable to golf than to any other game. Like golf it demands the most intense mental concentration and at the same time the most complete physical relaxation. Such diverse objectives are difficult of attainment at the same time and therefore require special conditioning.

Service teams always maintain a strict training routine. As a rule they do a lot more shooting than the average competitor pointing for a match. The constant physical pounding from the recoil, the repeated shocks to the nervous system from noise and concussion, and the continual strain, or anxiety, to attain the coveted places on the team through daily competition among themselves, demands young men at their physical best. The service teams strive for two things in their training: calmness and confidence. Calmness results from proper, clean, regular living which strengthens the nervous system through excellent all-around physical health. Confidence results from plenty of practice under all conditions.

But for those who fire only a couple of practices a week and a match or two per month, such a strict program of training is neither desirable nor necessary. It changes the game from sport, or an after-hours diversion, to work, and continued training without carefully planned breaks to bring the competitor to a certain peak at a definite time puts him on edge—keys him up nervously, which is exactly what you don't want.

The proper physical condition for the occasional competitor can best be attained by leading a normal life. Sudden adoption of training rules and hours only a week or so before a match will do little good. If you are going to train for a match you should either train over a long period, or not at all. More than a week or a month of strict training is needed to work off the effects of past indulgences.

We know that some things are definitely harmful to shooters. Tobacco, recognized as a heart stimulant, is apt to promote a pounding pulse if used in excess. Good coaches have also told me that they suspect it of affecting the vision. Movies don't help the shooter's eyes, nor does reading in bed. One excellent shot I've known got a tremendous lift out of a cup of coffee, and therefore never drank it.

John Barleycorn is beyond doubt the poorest shooting partner a man can team with. Those who hit the booze hard won't do well for very long. A certain topnotch team used to drink a quart of whiskey between them just before going on the line to fire a match. They apparently depended upon the first depressing effect of a quick dose of alcohol to calm their nerves. Judging from their scores they had their requirements and capacity worked out to a nicety. But liquor is a poor crutch upon which to lean at any time. That team is no longer anywhere near the top of the game, and they dropped out of the ranks of the champions almost over night.

I have known shooters who refused to eat anything during a day's match, claiming that they felt and fired best without food. By far the great majority eat lightly during a shoot, realizing that food is the source of the energy which they are consuming and which must be replaced. Some men require a lot of sleep; others do best on little.

One of the best shots ever to fire on an army team, I've been told—a man so good that he was allowed some leeway in the regular training routine, used to walk around half the night preceding a match in order to arrive on the line so tired and doxy that there wasn't a jitter left in him. A lot of excellent shots who, however, don't go to quite this extreme, maintain as he did that it is best to appear for the first stage of a match feeling a little tired and listless. But most orthodox coaches insist upon their men being clear-eyed and alert at all times.

My own outlook on physical conditioning is to live normally, not taking your shooting life too seriously. Experiment with such stimulants as tobacco and coffee, and with diet, sleep, and exercise. Overdo nothing. Experiment with a routine long enough to prove results, closely watching cause and effect as you practice. "Know thyself."

It is easier to prescribe the proper mental conditioning than it is to prescribe physical training. Shooters seem more alike mentally than physically, possibly because (in my opinion) we are all slightly nuts. You can't convince me that there is such a gulf between punching holes in paper targets and cutting out paper dolls! As a long-time summer resident of Perry characterized proceedings there: "You don't *have* to be crazy—but it helps a lot!"

The first step in attaining a proper mental attitude is to realize what it takes to be one of the top-notchers. With the service rifle you have to average 47 over the National Match Course to be near the top of the National Individual Rifle Match. That's a total of 282. Those who do better than that get the breaks. The top twenty small bore shooters in 1939 averaged better than 398.

Golfers have a par score for every course. Taking the scores above as par for the champs, what is your par? If your rifle will make one-inch groups at 100 yards and you have lots of leisure and money for practice, your par should be up with the champs. If your rifle throws one-and-three-eighths groups, drop your par to about 394. Then, when you shoot 394, you have shot your par, and it is unreasonable to expect consistently to do better.

Yet a surprising number of shooters go on the line determined to win a certain match. That determination only serves to tighten them up and defeats their efforts towards complete relaxation. With one half of their alleged minds on their score, their performance suffers, and they don't even shoot their par. A shooter who can average 396 under all conditions in practice, and who thinks that he is going to do better in a match, is just indulging in wishful thinking. (Continued on page 29)

# THE SINGLE ACTION COLT

## AS A MATCH GUN

By HAMILTON VREELAND, JR.

### PART I—MERITS AND DEMERITS

ABOUT A YEAR AGO in a sporting goods store I saw and examined a 7½ inch .357 Single Action Army Colt. The gun had a particularly good action and it also had with it a test target shot by Mr. Kiely at the Colt factory. At fifteen yards from arm-rest he had put five .357 Magnum bullets into a group which could be substantially covered by a dime.

Years before, when I was captain of a rifle team and was getting too much practice with a long-gun, I had shot a Single Action Colt in walks outdoors in lieu of work with a rifle. That gun was a .32-20 and it was remarkably accurate. However, I had not used a Single Action Army during the intervening years.

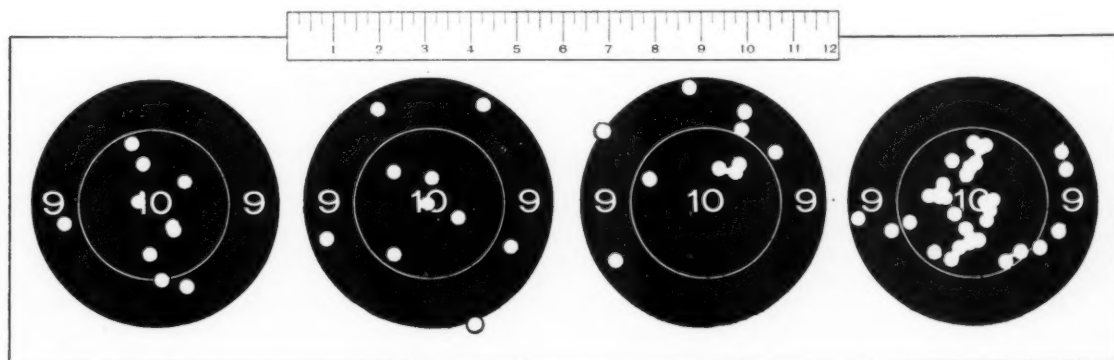
During the week after I first saw the .357 I thought of it many times and finally bought it, believing that if Mr. Kiely could shoot it that well from arm-rest, I at least could do something with it offhand. The first target which I shot with this gun at twenty yards resulted in 7/10, 1/9 and 2/8 and I could scarcely believe it possible. I then took the gun out on a twenty-five yard range and shot it over the Camp Perry course with surprisingly good results. Recently, the gun has won a gold medal in the Master Class and it seems to me that it has earned mention as a target arm. The illustration below consists of (left to right) slow, timed, and rapid fire targets which represent in their total of 288 about my average over the Camp Perry course with this gun; and the best score over that course shot with factory midrange ammunition for a total of 295. The targets shown were shot with the Single Action Army in practice under match conditions.

The disadvantages of the Single Action Army are usually stated to be the heavy hammer, long hammer throw and pull-back, non-adjustable sights, the fact that the sights are obliterated upon hammer-fall, the narrow

trigger, loosening of screws, and breakage of parts.

That list of facts is long and, if a substantial part of them operated as disadvantages, they would condemn the gun as a target arm as it comes from the factory. For about \$20.00 one can have installed adjustable target sights, a short action, a lower hammer, and a wider trigger. However, this article concerns the gun as it is sold by the factory. I personally am convinced that it is erroneous to assume that those facts operate as material disadvantages or faults.

*Long Hammer Throw and Pull-Back.* In the first place, the hammer throw of the Single Action Army is only about ⅛ inch longer than that of the K model Smith and Wesson. That fact is scarcely believable but the optical illusion comes from the fact that the hammer of the Single Action Army is exposed to view almost from its pivotal screw and, therefore, gives the impression of a much longer swing. In the popular double-action target guns I do not find much advantage in a short action. Cartridge primers require a certain force to explode them and that force is the result of the momentum of a hammer. This momentum is a combination of weight of hammer and distance and speed of its fall. If one decreases the distance of its fall, either the weight or the speed of the hammer must be increased to attain the former momentum. Since the weight of the hammer in a short action would, if anything, be decreased, it follows that the speed must be increased, which in turn means that a stronger main spring must be used. The inevitable result, unless the hammer blow is lightened, is a heavier pull-back through the shorter distance in the short action in place of the lighter pull-back through the longer distance in the factory action. However, the mainspring of a Single Action Army gun is very much stronger than is needed for proper ignition and it can safely be narrowed on its





full length almost down to the edge of the screw hole. This results in a pull-back which feels light because of the forward weight of the gun and, at the same time, produces regular and adequate ignition. With a spring so lightened it is very easy for a good rapid fire shot to place five shots within the 8 ring at twenty-five yards in seven seconds. If there is any added jar because of a heavier hammer fall I have not been able to detect it in my shooting.

*Non-Adjustable Sights.* The front sight on guns of recent manufacture in this model is flat-topped and about  $\frac{1}{12}$  inch in width and the rear sight is squarely cut, with the result that smoking of both sights gives a true Partridge-type effect. The front sight can be reshaped, particularly on its rearward face, to give sharper definition and to obviate smoking, which will be described in more detail later. The rear sight should, however, be smoked before shooting in any bright light because of the curved top of the rear portion of the frame.

*Obliterated Sights.* I had always considered the Single Action Army useless as a target gun for the one reason that when the hammer falls it covers the rear sight and makes it impossible to see the sights at the moment of discharge. I have been enormously surprised, therefore, to discover that this obliteration of sights makes no difference in my scores. I find that I can call my shots as well as I can with a target-sighted gun. The image of sights and bull remains during the "follow through."

*Narrow Trigger.* It is likewise a simple matter to fit a broad trigger to this gun since the under-frame can be readily removed and the trigger slot widened to any desired width and since the trigger can be broadened by heating and pounding or by the use of a trigger-shoe. However, the gun which made the targets published herewith has its original narrow trigger and I see no advantage in broadening it as long as one is careful to place the trigger finger properly when firing. I shoot the gun with the middle of the first joint of the index finger touching the trigger and the bottom of the frame, and with a squeeze straight back.

*Loosening of Screws.* If screws have a tendency to loosen, they can be made to hold firmly by placing them in a vise and slightly crushing their thread for about  $\frac{1}{8}$  or  $\frac{3}{16}$  of an inch from the end.

*Breakage of Parts.* It has been my experience that the only parts which have a tendency to break are the firing pin, the bolt, and the bolt spring. I have found that the firing pin, unless it is properly shaped, is likely to foul the recoil plate as it goes through the frame with resultant chance of pin breakage. The bolt may break along its spring-arm, usually at its screw hole, and the bolt spring may break at its fork. I shall discuss in Part II of this article the matter of replacing these parts with a view to avoiding further breakage.

It seems to me that the three principal essentials for good pistol shooting are well-defined sights, proper trigger release, and uniform grip. If the sights on the Single Action Army are smoked, I am sure that the average shooter will obtain clear definition of them. As for trigger release, the pull of this gun can be made absolutely perfect. It can be reduced to  $2\frac{3}{4}$  pounds and the back-lash can be absorbed in the soft trigger-spring without jolting the gun by having the trigger stop suddenly. As for uniform grip,

this model is, of course, famous for the comfort of its grip. It should also be famous for effortless holding and for uniform grouping. A Single Action Army, even one weighing  $2\frac{3}{4}$  pounds, hangs at the end of the arm without any noticeable strain on the wrist. In rapid fire it is clear that either the hand naturally gets back into the same position after each shot or that the grip is so shaped that a change of position of the hand makes little or no difference in the grouping. I personally believe that it is a combination of both, but it is certainly true with me that a change of position of the hand on the grip makes less difference with this gun than with any other gun of .38 or larger caliber that I have ever shot.

It is obvious, I think, that in a series of shots the grip upon the stock of a handgun must be approximately uniform if the shooting is to produce good groups. Any experienced pistol shot knows that he can change the position of his group by shifting his grip.

It is also obvious, I think, that the more the recoil is absorbed in the hand the more important becomes the matter of uniformity of grip. I think the .45 automatic is a difficult gun to shoot primarily for that reason. The grip and frame are so shaped that every bit of the heavy recoil goes into the hand, and the hand with its uneven surfaces and varying muscle tensions can throw the gun in various directions. The usual grip of the double-action modern revolvers does the same thing in lesser degree in that the back-strap and rear frame produce a partly reversed curve. The Single Action grip has no such reversed curve with the result that the gun muzzle rises sharply as the recoil comes and the grip slips through the hand. The gun upon recoil really revolves upon the second finger as a pivot as it rests under the frame, and one should let it go and not attempt to stop the recoil by holding against it. The result is uniformity of gun throw after cartridge discharge.

The Single Action Army has other advantages. It can't "shoot loose" in the alignment of cylinder and barrel because there are no crane and swinging cylinder. It has a very positive "come-up" in the cylinder because the hand is attached to the hammer and not to the trigger. Also the bolt can be fashioned so that it holds the cylinder very tightly in place because the bolt spring is strong and there is no reason to employ lateral play in the bolt action in order to serve some other function in the action. In addition cylinders are interchangeable for cartridges using the same caliber of bullet. Furthermore, the balance of the gun will be about perfect for anyone, since it can be obtained in barrel lengths of  $4\frac{3}{4}$ ,  $5\frac{1}{2}$ , and  $7\frac{1}{2}$  inches.

As for the method of shooting the Single Action Army, I have already mentioned the manner of trigger release I use, with the middle of the first joint of the trigger finger placed against the trigger and touching the bottom of the frame. That so places my hand that the second knuckle of my second finger rests against the rear of the trigger guard, and it brings the heel of my hand well back and to the left of the base of the grip. My thumb at its end is placed lightly against, but not pressing upon, the rounded rear of the frame at the left of the hammer and is therefore quickly available for cocking the gun. I fire the gun with fully extended but relaxed arm.



## CONDITIONING

(Continued from page 26)

If that is your present average in practice, don't expect to get shot full of luck (although it sometimes happens) and to win Sunday's match. By all the laws of averages—and the laws of averages and gravity are two you can't outsmart, you are going to drop four points somewhere in the course of the festivities, *so what do you care when you lose 'em?* When you drop your first snappy nine, don't let it get you down. You're due to lose that one, and some more pretty soon. Just tend to your knitting and shoot your average score, and maybe it will be enough to win.

The time to look at the score board is *after you have fired your last shot?* If, by watching the score board, you learn what you need to win, you will, in an effort to make it, think more of your score than of your performance on each shot. Be persuaded that you can't reasonably expect to better your own par, be it 399 or 389. And remember that under tough conditions everyone's par takes a nose dive right along with yours.

Calm confidence in your ability to make that par of yours will help you more than anything else. This calm confidence in your own ability is what you have striven to build up through physical conditioning and practice firing.

This competitive shooting is a game in which every shooter can have fun according to his abilities and equipment. Don't take it so seriously or train so hard that you lose enjoyment of it and make it into work.

Bill Bruce, Internationalist, a coach par excellence, the world's best shooting partner, and a swell guy all around in general, knew all the answers to this shooting game. And when you asked Bill how he was doing, he used to answer, modestly, "Not so good." But then, with a wide grin of enjoyment, he'd invariably add: "But oh Boy! I'm sure havin' a lot of fun!"

## THE OLD COACH'S CORNER

(Continued from page 21)

should come naturally onto the bull. If your position is such that the sights naturally align high, low, right, or left, and you have to muscle or pull the rifle over to get the correct aim, you will not have the steadiest position, and your scores will suffer.

It is decidedly best to keep the left elbow continuously on the ground, never lifting it therefrom, and never relaxing or changing the grip of the left hand on the forearm during the entire string of ten or twenty shots. If you do lift the elbow or change the left hand grip your next shot is very apt to go out for a nine at least—not invariably, but usually. This constant strain, without any relaxation, is hard on the left hand and wrist at first, but like everything else you gradually get used to it. At the end of the first month you will think nothing of firing twenty shots without raising the elbow.

Heart throbs may trouble you at first. As you hold

and aim steadily the front sight seems to rise and fall on the target with the heart beats. Wear a shooting coat that has fairly thick padding at the back of the left upper arm where the sling goes around the arm, and also have a sheepskin pad on the inside of the back portion of the sling loop, to cushion the sling where it tends to cut into the back arm. This will prevent or minimize the pulsations, and they will disappear after a little practice.

The whole position must be as uniform as you can make it every time. Strive always for uniformity—the same angle of body, arms, etc., same tension of sling, and that position that aims your rifle accurately at the bull without your having to muscle it into correct aim. You will arrive at this uniformity only after considerable study, self analysis, and practice. When it is acquired it is one of those things that lift you out of the ordinary into the prize winning class.

## ELEMENTS OF RELOADING

(Continued from page 17)

quickly with the copper in brass cartridge cases to produce compounds which soon corrode and weaken cases. After decapping, drop the cases into hot soapy water or water with a strong baking or washing soda content, scrub the interiors thoroughly with a bristle brush, especially if at all caked, rinse in boiling water, drain by gently tumbling the cases in a cloth sack, and dry in a warm place cool enough to avoid annealing the cases.

**PRIMING.**—Priming is done with empty dry cases, and with primer pockets lightly scraped clean of all corrosion. Almost any primers of sizes fitting black powder cases will hold black powder pressures. Old black powder primers of Peters, UMC, Winchester, and other good makes are satisfactory for firing black powder but are not hot enough to surely fire smokeless powder. See preceding articles on reloading pistol cartridges or handbooks issued by loading tool manufacturers for further details.

**POWDER.**—Black powder is an excellent propellant for those who begin their reloading experience with black powder cartridges and reloading tools. It cannot be loaded in overcharges, for it bulks well and is intended to fill the cases except for space needed for bullet seating. It can be quite accurately measured in cylindrical cups made from empty cases, with handles soldered on, cut just long enough to hold the proper weight of black powder. Fill the measuring cup by dipping into a tin or tea cup full of powder, and strike off the surplus with a straight-edge.

Black powder ignites very easily and should not be left open where one is priming, smoking, or using other flame. It comes in three granulations: FFFg, the finest granulation, is for the .22-10-45, .22-13-45, and similar cartridges. FFg is for larger cartridges up to and including the .32-20. Fg, the coarsest granulation, gives the cleanest burning and best results in .35 and larger calibers.

**SEATING BULLETS.**—Many old Ideal No. 4 and No. 6, Marlin, and other reloading tools are available for old black powder cartridges, and for such cartridges do very well.

Such tools are equipped with moulds which, during bullet moulding, so greatly heat the metal handles that these should be wrapped with tape. Many of these early tools are non-adjustable and are designed to make but one standard load, but if such loads are satisfactory, will serve quite as well as newer tools which can be adjusted for the depth of bullet seating, the amount of crimp applied, and for seating bullets of different shapes.

Before seating bullets, the crimp should be removed from previously crimped cases as described in the October RIFLEMAN. The rifleman soon learns to start the bullet into the case, with the bullet end up, before closing the handles and seating the bullet. Bullets should be lubricated with tallow until one can buy or mix better lubricants.

Until a regular bullet lubricator is obtained, cold bullets may be dipped, one at a time, into tallow kept just hot enough to pour, deeply enough to cover the lubrication grooves, and then set down upon newspaper which will absorb much of the lubricant on the bullet base, reducing necessary base wiping.

Straight line bullet seaters are sometimes included with Ballard, Maynard, and Sharps outfits and, since they give uniform bullet adjustment and depth of seating, will give the smaller groups needed for target work.

Before the next month's RIFLEMAN arrives, to take up more advanced and detailed reloading, the beginner should secure an Ideal Handbook if obsolete American metallic cartridges are to be reloaded, or Ideal, Belding and Mull, Modern Bond, or other handbooks of manufacturers advertising reloading tools if interested in modern cartridges.

## IS THIS A SPORT?

(Continued from page 7)

equipment, complete, for all stages. If he wears a shoulder pad, prone, let him wear it standing and, between you and me, it's an awful mess because you cannot feel that flat N. R. A. buttplate through it, and so you cannot tell whether or not the rifle is properly seated at the shoulder. If he uses a ten-power telescope, prone, let him fire with it standing. It can be done; I have done it, although I do not like it, and my friend "Buck" Buchanan (the guy who taught the colt .45 how to shoot) uses, I believe, an eight-power for offhand work. If our friend likes a twelve-pound rifle, prone, let him use it standing. He'll get tired of it. And, above all, if he has to have a special straight stock for his prone shooting, let him get up on his hind legs and try to see sights through it. In the meantime, our young friend who has dug up twenty-five bucks for a gun, is finding some difficulty centering that cheap, coarse crosshair on the bullseye. Let's take a look at what they are doing.

Mr. Doakes, with his fine rig, has just fired ten shots prone, scored a possible with nine X's, and is going over to get his money. Young Bill Williams, having made a 95—which he knows is about all he can expect, decides to quit the racket until he can get something with which to shoot. But the club secretary, an ornery-looking individual, scowls at them and tells them to go on back and finish up, they're not half through. Two hours later the scores are

posted, and Doakes, with a sigh of relief, again starts for the cash register.

Name	POSITIONS				
	Prone	Sitting	Kneeling	Standing	Total
J. Doakes	100	98	85	78	361
E. Zilch	100	96	..	..	...
Tom Collins	96	94	83	70	343
Ed Schuter	96	92	86	85	359
W. Williams	95	93	87	85	360

"Well, Colonel," says Joe, reaching for the pay-off, "that was a good match, at that. That's what we need, is good competition. Three men a point apart—that's what I call good shooting. Shows what a good rifleman can do. Little practice, and Bill and Ed'll be running me out. By the way, that's five bucks, isn't it?"

The secretary, who has been figuring with the short end of a pencil, looks up cheerfully, and posts a new sheet.

Name	POSITIONS				
	Prone	Sitting	Kneeling	Standing	Total
	Factor	1	2	3	4
Williams	95	186	261	340	882
Schuter	96	184	258	340	878
Doakes	100	196	255	312	863
Collins	96	188	249	280	813
Zilch		Unfinished			

Well, well! And that's that. What happens? Probably the next rifle Joe buys will be a little lighter, and the chances are his telescope will be four-power instead of ten. When Bill gets prosperous, he'll get rid of that cheap scope, or learn to "look around the edges" of the thick cross-hairs. And, in a year or so, Bill will be up in Joe's attic, helping him make some new gadget—which the club secretary will rule illegal.

We have to eliminate gadgets. Just as soon as a contestant invents something for bettering his score, a board ought to sit on it. Anything tending to specialize the rifle, so that it is no longer a practical hunting weapon, ought to be thrown out. If you wouldn't carry it along, under ordinary circumstances, when you go for woodchucks, it doesn't belong in practical .22 rifle competition. And first thing we know we'll be using rifles, instead of prone rifles.

Zilch? Oh, to hell with Zilch. He's that fellow who goes around picking matches as if his reputation really were worth something. Yes, he quit the N. R. A. That was the year they increased their membership forty percent—yeah, the year the W.P.A. built the range at Whosisville. Boy, that's some swell layout—and has the Lions' Club got a team this year! Listen: they tell me they have four teams!

Boys, I'm probably a doddering damned old fool. I'm not trying to bust up anything. The N. R. A. will be going strong when I'm gone and forgotten. All I want is to see us pay some attention to MEN instead of so much to machinery. I'm not asking you to change a thing except the way you add. It's the first time I ever asked the Association to do anything for me, but I'm serious when I ask this. And I'm going to ask one member to throw in with me:

Harry Pope, you old sport, will you join my one-man Revolution?

# OVER THE NEWS DESK

## NEW BOOKS:

### "THE MODERN GUNSMITH SUPPLEMENT"

By JAMES V. HOWE

The author's two-volume work on gunsmithing has, according to the publishers, been purchased by some 6,000 shooters, each of whom will want the new 64-page supplement to complete these sets. Physically, the supplement is of the same binding, size, make-up and quality as the original work, which was a beautiful example of the printer's art. The ten new chapters cover such subjects as Iron and Steel, Gun Barrels, High Velocity Experiments and Semiautomatic Military Arms.

In Chapters II, III and IV the author gives some interesting dope on iron-steel alloys for gun barrels which should have been given in the original work. Chapter V contains a description of the spirally-fluted reamer and arguments for using same. Chapter VI discusses high-velocity experiments at Springfield Armory with the Gerlich three-step .35-.25-caliber barrel and two-finned .35-.25-caliber bullet, which developed 4500 f.-s. m.v., as well as the author's development of an auxiliary-base single-finned .30-.22-caliber bullet and smooth-tapered bore with rifling only at the muzzle end of the barrel. This is the combination of .30-'06 cartridge and .22 barrel which gave its 60-grain .22-caliber bullet a recording of fully 7000 f.-s. on the Aberdeen chronograph, but with only one shot.

The reader will probably get little information from Chapter VII on Gunpowder, less from Chapter VIII on Gauging Wind and none from Chapter IX on The Cost of Firearms and none from Chapter I on Matters of Major Importance. These latter two should have been omitted to relieve the impression of labor obtained from reading the other chapters, all of which are too wordy for a technical work and unfortunately, written in a style that confuses or obscures the intended meaning. Chapter X adds a little new dope to what is commonly known about the Garand rifle and its manufacture. This final chapter is interesting chiefly because it presents the author's frank opinion of the Garand and Johnson Semiautomatic rifles.—F. C. NESS.

*The Modern Gunsmith Supplement; 64 pages, illustrated, fabrikoid cover; Funk & Wagnalls, N. Y., \$2.00.*

### "MASTERING THE PISTOL"

By MORRIS FISHER

Following his valuable book "Mastering The Rifle," Morris Fisher, also a qualified pistol shooter, passes along his wide range of experience to the pistol shooter. In thirteen chapters the author covers the subject clearly, without repetition, all the way to coaching, free pistol shooting, hip shooting, and suggestions on a police officer's training course. One chapter deals entirely with range procedure, management and range "etiquette."

The book has been arranged in such a way that the entire contents need not be read by the advanced pistol shooter, who has already passed the novice stage of training and match shooting. The Author clearly indicates, with suggestions, the necessity of continued practice, physical fitness and self-determination to make the Expert or Master grade.

Usually a shooter is very enthusiastic when starting practice, yet fails to discover the real reasons for the slow progress after becoming an "eighty" shooter. There are numerous suggestions for such shooters' improvement in this new book. The author does not use a great deal of space discussing minute details, leaving these to the shooter, but all the essentials are there; and one soon learns that they are presented by an experienced and careful observer of all phases of the pistol shooting sport.

The novice who has never fired a shot in competition should find the entire book most beneficial, as the author presents an idea of what to expect in the first match or any match; things never discovered in routine practice.

Those in a quandary over the selection of a handgun will find some useful suggestions, although specific makes and models are not mentioned, the author leaving this to the purchaser.—A. H. BARR.

*Published by G. P. Putnam's Sons, New York. \$2.25; cloth bound; 158 pages; half tones and drawings.*

### 1940 EQUIPMENT SURVEY

In order that we may have a record of the equipment being used by the leading small bore and handgun shooters from year to year, a questionnaire was sent out recently to the 125 top-ranking shooters for 1940, both small bore and handgun. A brief outline of some of the information obtained from these questionnaires follows.

#### Small Bore

Further confirming evidence was obtained to prove that the majority of top-ranking shooters stick to one gun only in match competition, straight through the entire outdoor season, with over four out of five using one gun only. A definite tendency to a similar usage of one brand of ammunition was indicated, with nearly 50% using one brand exclusively, as compared with 40% in 1939. Three-fifths were using Smokeless and two-fifths Lesmok loads. Only 25% of the match rifles were equipped with special barrels; 10% with special actions; 15% with special triggers and 32% with special stocks. A slight decrease was recorded in the usage of extension rear sights from 77% in 1939 to 69% in 1940.

This year, for the first time, information was requested on the power of telescopic sights used—32% were 10x; 15% 15x; 12% 20x; 11% 12x; the balance running from 12.5x to 25x. Likewise new information was requested this year on the power of spotting scopes used—82% were of the popular 19.5x and 20x; the balance 18 to 33 power. A surprisingly high percentage of trigger shoes were found to be used on match rifles in 1940—49.5%. A new question was included this year on shooting glasses—68% definitely indicated they were using glasses in match competition; 64% with plain lenses; 24% with "corrective" lenses.

#### Handguns

A definite tendency toward the increased usage of only one brand of ammunition in each caliber by handgun shooters was indicated: 53% in .22 caliber; 35% in center fire and 18% in .45 caliber. There was a decreased usage of handloaded center-fire ammunition to 40% (50% in 1939), either exclusively or along with commercial loads. Likewise there was a decrease of about 10%

*(Continued on page 32)*

### TIMED FIRE with Bill Shadel

• The legislative "putsch" over the last few months is still the big news in gun-owner circles. As we go to press, we can say without being too optimistic that the three tough ones in New York State, California and Ohio seem to be under control; Illinois still teetering; the general forecast, Fair. BUT—Watch out for the so-called Uniform Explosive Bill, introduced already in some 15 state legislatures. Affecting you reloaders particularly, it will mean a permit with fee from the authorized agencies to buy powder from a dealer likewise licensed with a higher fee. As with firearms registrations, the criminal or saboteur is not leaving a trail for the big "job" by any purchase of nitro-glycerine, but is going to make his own soup just as he uses his underworld-secured gun.

• On the New York firearms proposals, Sec. C. B. Lister aired our logic over Columbia's Bob Edge program, March 13, in a round-table discussion with Assemblyman Moritt, sponsor of the bill. Moritt suggested he would amend his bill to include only aliens without first-citizen papers. So it all ended as one happy family.

• The Marines have compiled some interesting data on Camp Perry records. It's all the basis for an article prepared by Lt. Hamilton. 1940 Wimbledon winner, to appear in the April "Leatherneck." In 17 main events fired a total of 447 times, the Marines have 168 victories, the Infantry a total of 78, National Guard 68 and Civilians 48. In the national team match fired 31 times since 1903 they hung up a plurality of 15 victories, and 15 in the President's, fired 38 times since 1901.

• Over in Wilmington, Delaware, Winfield Cann philosophically views his 1941 rating of Sharpshooter in the new classification books just out, tho' he wanted Expert. "I had four extra months of happiness when you couldn't tell me my rating last fall. Anyway, one of our fellows has told me he would rather be in sharpshooter class than expert because he says the sharpshooter brassard is prettier and most people when they see a sharpshooter badge would think the sharpshooter was the best shot . . . but my main worry now is can I keep from slipping down into the marksman class? I don't know how pretty a marksman's brassard looks as no one but a tyro would wear one. The disappointment of being a sharpshooter has worn off by now, and I'm feeling normal again and am glad I didn't sell my stuff as I'd be in the market for more by now. Enclosed find one dollar for one of your bee-utiful sharpshooter brassards and two of Captain Andrew's books 'From Tyro to Master.' I'll study the both of them."

• From John Wemstrom, Sec. of Janesville (Wis.) rifle club, we learn of a shoot-off for first place in Southern Wisconsin league, wherein Janesville totaled 1458 x 1500 (prone, sitting, standing) for a new league record and fourth straight championship. Can you match it?

• The idea of classification shooting among club members to keep up interest of newcomers accounts for 79 qualification insignias presented March 10 at meeting of Metropolitan Life Ins. Athletic Ass'n., New York. An active club, we'd say!



(Continued from page 31)

in the usage of "Government Issue" .45 caliber ammunition.

Special sights are being used more on all three calibers of handguns; 36% on .22 caliber (27% in 1939); 54% on center-fire (40% in 1939); 60% on .45 caliber (only 40% in 1939). Similarly there was a decided increase in the number of special stocks and adapters on .22 caliber and center-fire guns. On .45 caliber guns the percentages were almost identical for both years.

For the first time, information was requested on the use of shooting glasses. A surprisingly large number were found to have used them in match competition—61%; of which 71% were with plain lenses and 29% "corrective". Although trigger shoes were used by nearly half of the small bore shooters only a very small percentage of handgun shooters are using them so far.

### NEW N. R. A. INSTRUCTIONAL FILMS

The first two of the National Rifle Association's new series of instructional motion pictures for rifle and pistol shooters are ready for distribution—"Pistol Bulleseyes," a three-reel (45-minute) film graphically leading through all of the essential steps toward becoming a successful handgun shot, and "Rifle Marksmanship," a four-reel (1-hour) film illustrating the whole practice and theory of learning to shoot a rifle.

The rifle film was prepared at the Quantico, Virginia base of the U. S. Marine Corps, and all of the "actors" are members of the Marine Corps' famous rifle team, put through their paces by Captain Van Orden and veteran Team Coach Cal Lloyd, who has steered a dozen Marine teams to victory in the National Matches. Dedicated entirely to the use of the .30 caliber Service rifle, the film nonetheless will be as valuable to the small bore shooter, whose fundamental problems differ little at all from those of the big-bore rifleman.

The pistol film presents "leading man" Frank Wyman, N. R. A. Competitions Division head and one of the outstanding handgun men of the nation. The film takes the tyro through all of the preliminary steps, and on to more advanced matters of timed- and rapid-fire technique and the whys and wherefores of sight adjustment.

At first thought, these films will appeal as "naturals" for club meetings and dinners. They should not be overlooked, however, as fine material to start out classes or schools of marksmanship this spring, which many clubs will be undertaking either as a means of boosting membership or in the interest of doing a bit toward developing a citizenry that can, and will if the necessity arises, handle firearms safely and intelligently. In preliminary instruction, they will save many hours of tedious "lecturing" to get over to beginners the fundamentals of the shooting game before starting actual rifle or pistol practice.

Either of the films may be obtained from the N. R. A. at a rental of \$1.25 per reel (a total of \$3.75 for the pistol film; \$5.00 for rifle). Individuals or groups not affiliated with the N. R. A. pay these fees for a single showing; members and N. R. A. clubs will be privileged to retain them for a week, during which they may be shown before several groups, or, in the case of marksmanship classes, several times to the same audience, to ensure the maximum benefit as instructional material. They also may be obtained, with the same rental fees and concession to N. R. A. members and clubs, from Bell & Howell, 1843 Larchmont Ave., Chicago, Ill., or 30 Rockefeller Plaza, New York City.

Clubs or individuals interested in showing either of the films should make arrangements well in advance of date of showing, allowing ample time for booking from the N. R. A. or Bell & Howell.



### OHIO-WASHINGTON BROADCAST

More and more, station and network program directors are finding that their "consumer" public will listen to shooting broadcasts. What's more, if a good show is built around such a broadcast, that same public gets a whale of a kick out of it, and begins asking for more. There seems to be a novel "angle" to the idea of hearing rifles or pistols pop in the background of a running commentary that makes the most of building up suspense in a closely contested match. In February such a coast-to-coast broadcast effectively linked two widely separated cities, Washington, D. C., and Columbus, Ohio, and as effectively added a spark of interest and showmanship to a couple of otherwise perfectly orthodox indoor rifle tournaments.

WHKC, Columbus, Ohio's Mutual outlet took the initiative in staging a broadcast from the new indoor range at nearby Olentangy Village, where on the 22nd of February the Midwest Indoor Championships were held. With an eye toward a better half-hour show than one tournament could afford, Washington and New York were contacted; final arrangements were made for a 5-man team to be picked from the competitors at Olentangy, to fire via radio against a similar team selected from the high contestants of the District of Columbia Indoor Championships, which were decided on the same day.

In Washington, a team picked at large and representing the top-notchers of the tourney went on the line at the N. R. A. indoor range, with Mutual-WOL's Tony Wakeman and N. R. A.'s Fred Hakenjos (see top picture) running the Washington end of the coast-to-coast Mutual show. Prone scores already had been fired before going on the air—nothing remained but offhand. At the end of the period allotted for Washington the score stood at 914, with Schneeman of the Marines high at 186.

Take it away, Columbus! "This is Fred Joyner of WHKC bringing you . . . the results of our Columbus team's firing—a total of 940, 26 points over the District of Columbia score. A possible prone, 94 standing performance have given high gun honors to L. E. Klein, Canton rifleman."

Winding up the half-hour show, N. R. A.'s Bill Shadel spoke, together with E. N. Littleton, president of the Ohio State Rifle Association, and Anna Lou Ballew, Mannington, West Virginia, youngster who took the national junior rifle crown last year.

**Broadcast match winners: Seated, Fred Joyner of WHKC with team captain Davis**



### HAKENJOS TO HERCULES

Fred Hakenjos, N. R. A. Administrative Assistant, left the Association on the first of March to take up new duties with the Hercules Powder Company in Wilmington, Delaware. Hak will work with Col. H. N. Marsh in the administration of new small arms powder plants building as a part of the national defense program.

Hak came to the Association in 1934. In his better than six years with the N. R. A. he adopted the small-bore game as his particular forte, in addition to handling details of the N. R. A.'s unceasing fight against unwish firearm legislation. A host of friends will wish Hak the best of luck in his new job.

### 1941 NATIONAL RANKING PLAN

The fact that there are three separate phases to the N. R. A. Registered Tournament Plan sometimes proves confusing to the newcomer. First is the "National Average" phase; second the "National Classification" phase; third the "National Ranking" phase. In order to avoid misunderstanding it is essential that these three phases be clearly understood. All scores fired in Registered Events are recorded and calculated to determine the shooter's National Average. On the basis of this National Average the competitor's National Classification is determined. These two phases are aimed primarily at the purpose of encouraging the beginner and the "average shooter" by enabling him (or her!) to compete against others of approximately the same scoring ability, regardless of equipment. A competitor may obtain a National Average and National Classification without ever shooting in anything except local "Class C" Registered Tournaments. National Ranking on the other hand is a distinct proposition. Whereas National Averages and Classification are intended to give the "average shooter" an interest in life, National Ranking is intended to give the Master something to shoot for.

The only thing that makes National Ranking mean anything to shooters and sports writers is the fact that the National Ranking list presumably represents "the cream of the crop" for the current year. It is supposed to represent those competitors who in shoulder-to-shoulder competition, with "the heat on," under a variety of conditions, have consistently proven their right to the top rungs of the competitive ladder for the current year. It has been argued that only the scores fired at the National Championships should be considered in determining National Ranking each year. Theoretically this may be sound logic but there are always some excellent shots who for reasons beyond their control are unable to attend the Nationals. This being true it has seemed reasonable to depart somewhat from the theoretic ideal and to recognize those who compete in their Regional Championships as being eligible for the National Ranking list. It is generally accepted as being both reasonable and logical that no competitor should be considered as one of the "cream of the crop" who has not won his spurs in either the Regional or National events. Following the same line of thought it has appeared that victories won in any event of less importance than a "Class B" (State or District) Tournament should not be considered in selecting the outstanding shots of the Nation. The final, and obvious, consideration must be that a competitor shoot in enough events to prove that he is no mere "flash in the pan."

Based on the above reasoning the 1941 National Ranking plan stipulates—

(a) Only competitors in the Master Class will be considered for the National Ranking list. (Continued on page 36)



# TOURNAMENT REVIEWS

## GOODRICH OPEN PISTOL

The 7th Annual Goodrich Open Pistol Tournament, sponsored by the Summit County Pistol League, attracted 93 registrations and 563 entries. Competitors from five states attended.

Saturday was .22 caliber day, and William Coyne, representing the Police Department of Jones and Laughlin Steel Company, came over from Pittsburgh and proceeded to set a new National Record in the .22 caliber timed-fire match by firing a 199. Ralph Marshall, the Lima, Ohio sheriff and number one civilian shooter in 1939, was not quite up to form. The same was true of W. F. Woods of Akron, the Ohio State Champ. Neither of them were able to keep some of the lesser lights from nudging in ahead.

Phil C. Roettinger, Wyoming, Ohio, indicated his ability right away by winning the first match on the program, the .22 slow, with a 184. Then came William P. Coyne with his record in the .22 timed-fire match. N. C. Studt, Dearborn, Michigan, took the .22 rapid-match with 189, and Roettinger came back with 283 to take the three-stage .22 match and the .22 Aggregate with 842. The four-man team .22 caliber over the three-stage course went to the Lakewood Police with 1058.

On Sunday the .38 calibers started with John O'Brien, Cleveland Police, taking the .38 slow with 181, Roettinger was right on his heels with another 181 but was out-ranked. Verne Jubenville, another Policeman from Detroit, took over the .38 timed-fire with a nice 195. Coyne showed he could handle the .38 by taking charge of the rapid-fire shooters to the tune of 182. Hayes Englert, Oil City, Pennsylvania, showed the way in the .38 caliber three-stage with 270; Verne Jubenville "also ran" with 270 but was one point behind at the rapid stage. He came back in the .38 aggregate with 813 to beat M. R. Simon of Beaver Falls, Pennsylvania. The .38 caliber four-man team was a dog fight right up to the last man. Cleveland Police finally took the trophy with 1003; Neville Island Gun Club, 1002; and the Pittsburgh Revolver Association, 1001. In the meantime novice Roettinger had been pecking away with some very consistent shooting and captured the Grand Aggregate with 1626, beating Ralph Marshall's 1602.

The Summit County League plans to have another of their popular Outdoor Tournaments the last week-end in September.—J. C. KELSEY.

## MID-WEST GALLERY RIFLE MATCHES

Strange indeed must have been the sight that greeted the 271 men and women who drove up to the Olentangy Village Rifle range in Columbus to check in for the N. R. A. Registered Match conducted by the Ohio Rifle and Pistol Association on February 22-23. Accustomed as they were to hunting for ranges in out-of-the-way side streets, alleys, and back country roads, it was startling to see two neon signs blazing "Rifle Range" right on High Street in the midst of a modern village of colonial architecture . . . then the checking of coats in a "hotel-like" check room, and finally a warm, well lighted registration office . . . the range with 27 firing points, flanked on one side with an archery range, and a golf school in the back . . . the bowling alleys overhead putting a premium on the man who can concentrate. What a contrast to the usual barn-like atmosphere of armory, drill hall or those underground basements we glorify with the name "range"!

For shooting conditions, scan these broken records: John Brown, Akron, broke the state and national record with 290 in the three-position, metallic-sight match; in turn Larry Wilkens, Medina, broke Brown's off-hand record with a 192 and Edgar Bruce, Columbus, topped the American Legion match record with 289. Records were tied by Dorothea Kelly, in the Mid-West aggregate, with a score of 591, the match winning total. Mrs. Kelly, No. 1 ranking woman in 1940 and the only one of her sex to make the top 100 list, also won the Ohio women's championship, tying her own record of 289.

In the team matches, Ohio defeated Connecticut 2837 to 2803 in a three-position, any sights, 10-man team match. The Ohio juniors also took the Connecticut juniors into camp,



*199 and 42 X's meant a new world's record to this Burbank (Cal.) Rifle Club team, firing in the Glendale matches last October. Their score is a new high for the 20 shot 100-yard any sight course*

firing 1844, thirty-eight points over the previous record, to the Easterners' 1836. J. F. Turnbull, Cedarville, had the high Ohio senior score of 290 and juniors Lino Della Bianca and DeWitt Erk tied for high on the Ohio Junior Team with 100 prone and 89 standing.

Mrs. Kelly, in addition to winning the aggregate and the women's match also took the three-position any-sight event with 291 and tied for the Tewes Match, 30 shots prone, metallic sights with a possible 300. Other ties in this match were: Stan Grooms, F. A. Lewis, F. A. Sells, Scott Romig and A. W. Hunsicker. Lewis won out in the shootoff with 36 additional tens. Bob Singer of Akron U. won the collegiate metallic sights three-position event with 271, Gierhart of Ohio State finishing second two points behind. Mrs. L. Dunphy, Warren, won the tyro match for women, shooting a 200 possible in this Olentangy Village special event.

There were 58 junior entries which included seven of the top ten from last year's Camp Perry Junior Championship, headed by Anna Lou Ballew, Mannington, W. Va., National Junior Champion, who won the prone match with 199. Arthur Corbin, Columbus, won the Helen Louise Jenkins Trophy for Ohioans, shooting a 198. The Junior Championship, a three-position match, was won by Lino Della Bianca, Akron, with a 280. This broke a winning streak of three years' standing by girl shooters. A team representing the Akron Post American Legion No. 209 won the junior team match by one point from the Columbus Rifle and Revolver Club juniors. An all girls team sponsored by Voiture 11, Forty et Eight, Cleveland, was third.

The Executive Committee of the Association wishes to express their thanks to Mr. Roy B. Fourman, Executive Officer; Mr. Lee Arntz and Sgt. F. T. Shaia, Coach of the Ohio State team, range officers; Mr. Frye and

his efficient staff of Olentangy Village; Pete Thompson, scorer par excellence, and to Mr. Bill Kelly's entire staff of loyal, hard workers, for a well-conducted match. The Columbus Dispatch, Columbus Citizen, and Ohio State Journal gave us excellent coverage with stories and pictures both prior to and after the matches. We especially thank Fritz Howell of the AP for his assistance and appreciate the very clever "interviewing" by Jack Keller of the Citizen of that deer hunting, mountain goat-stalking denizen of the forests, Bill Shadel.—H. D. ERK.

## MINNESOTA INDOOR RIFLE AND PISTOL MATCHES

John Cole of Minneapolis captured the grand aggregate championship title in the first rifle meet of the year staged by the Minnesota State Rifle and Pistol Association. The tourney was held on the range of the University of Minnesota, February 9th. Cole edged out a field including Dr. Emmett Swanson, R. K. Sandager, defending titleholder, and William Jeffers of Austin. Swanson placed second in the aggregate, scoring 90 in the standing position against Cole's 93 to break tied 585's.

Mr. and Mrs. Cole placed first in a "two-man" event, scoring a 199 total in the sitting position, and the team of Swanson and Sandager topped in a doubled offhand event. Dr. Swanson also took first place in the individual prone match. In the kneeling event, Swanson and George Morse tied at 98, with Morse outranking J. M. Becker's 199 in the individual sitting event gave him a first place medal and Cole added to his laurels by walking off with the individual standing match. In team competition the Minneapolis first team won the four-man event, followed by Austin, Becker-Chapman, Northwestern, Fergus Falls, Minneapolis two and United Sportsmen.

On the 25th following, 41 pistol shooters assembled for the state indoor pistol tournament, with a good representation of Iowans swelling the entry in addition to Minnesota pistolshooters. The local team of Glen Phillips and E. E. Surdyk led off by taking the two-man event, scoring a total of 538 for first place medal. In the individual slow-fire match, G. W. Paine's 176 was good for lead position, and the St. Paul shooter reaffirmed his ability by taking the timed-fire match with 195. It was again Paine in both the rapid-fire and three-stage gallery course events, in which he chalked up 193 and 284 to complete a winning 848 total in the aggregate.

## EASTERN WASHINGTON INDOOR TOURNAMENT

The Eastern Washington Regional Indoor Tournament was held at the Spokane Armory on Sunday, March 2nd, under the sponsorship of the Spokane Rifle Club. Thirty-three entries from widely separated Inland Empire points registered for the ten-match program. This tournament, and the one held by the Western Washington Regional group on the same date, decided state indoor championships in addition to the regional champion. Don Brewer of Spokane won the aggregate with an 881 for the combined course of 40 shots prone, 20 sitting, 20 standing and 10 kneeling. This being Brewer's third year of winning the aggregate and the second consecutive year, he withdrew from the aggregate match in favor of William Shumaker of Colville, who was runner-up with a score of 877. (Shumaker lost the aggregate to Brewer last year by one point.)

It was a good shoot with forty medals and three trophies awarded. Mrs. Jessie Clapp of Pasco won the Nooney trophy and medal for high woman competitor. Westley Boughton, Spokane Valley student and member of the V. F. W. Junior Club, won the high iron-

sight medal. Shumaker won the Ellensburg Kiwanis Club trophy and the Al. Wright trophy in addition to the Regional medal and State Champion title. Shumaker's aggregate score topped the Western Washington Regional winner by one point. According to telephone reports the winner of the Western Washington match was Mr. Jones of Portland, Oregon, who has considerable fame as a "possible" shooter in the standing position. Anyone who can hit that little ten-ring with ten consecutive shots is deserving of fame. Results of matches and medal winners were: first match, 10 prone, 10 sitting—T. K. Reed, 200; second match, 10 prone, 10 kneeling—Brewer, 198; third match, 10 prone, 10 standing—Brewer, 194; fourth (Buddy) match, agg. of matches 1-2-3—Weaver and Brewer, Spokane, 1176; fifth (Spokane Rifle Club) match, 10 prone, 10 sitting, 10 standing—Shumaker, 293; sixth (four-man team) match, 10 prone, 10 sitting, 10 standing—D. Brewer-P. Weaver, F. Nooney-George Ladd of Spokane, 1150; seventh match (prone aggregate), Brewer, 400; P. Weaver, 400; J. Johnston, 400 (five shooters tied with 400 x 400 with elimination shootoff to determine winners); eighth match (sitting aggregate), Reed, 200; ninth match (standing aggregate), Shumaker, 186; tenth match (grand aggregate), Shumaker, 877; P. Weaver, 873.

#### HAWKEYE CONFERENCE (IOWA) TOURNAMENT

Two members of the state's law-enforcement agencies took premier honors in the first annual Hawkeye conference rifle and pistol matches at Waterloo, Iowa, March 2nd.

The meet attracted more than 100 marksmen from 12 Iowa cities.

Ralph W. Travis, Assistant Attorney for Blackhawk County, won the aggregate all-events contest among the riflemen, and Don Thimmesch, West Liberty, State Highway Patrol Sergeant, captured first place in the pistol aggregate.

Travis is believed to have hung up a new state record in the prone shootoff for first place, when he bested Willis Kenyon, Clear Lake, Ky., compiling a score of 1,200.

Kenyon, a member of the Pershing team in 1939, had a mark of 1,199 with 119 out of a possible 120 bullseyes.—*Des Moines Register*.

#### NAVY PIER RIFLE AND PISTOL TOURNAMENT, CHICAGO

The annual Chicago Motor Boat and Sport Show, staged February 1st through 9th, saw 117 small bore shooters check in for the marksmanship events held each year in connection with the Navy Pier outdoor show. Raymond Swanson, Chicago, accounted for first place in Match One, iron sights, 20 shots sitting at 75 feet, with a 196 tally. In the kneeling event at the same distance, Rudolph Weers, another local rifleman, walked off with the first place medal for his 193 total. William Schilling, Northbrook, Illinois, took first ranking in the prone-sitting event with a 200 possible, and Hubert Deal and Everett Schreiber, both Chicagoans, chalked up a total of 397 to take the two-man event run off as a part of the same event. Dudley Steen, Maywood, Illinois, came out ahead in the prone-standing match with a 194, and followed up with a winning 192 in a four-position individual event. The Winnetka Rifle Club's four, Tange, Schilling, Steen and Phelan, ran up a 756 tally to take the four-position team event. Chester Rubin, Chicago, took the 75-foot standing match with a 177, and Steen's 193 was good for first place in the four-position iron-sight individual. Winnetka came through in another team event by taking the four-man match over the same course with a 759 total. In the prone 40-shot event, iron sights,

George Bjornstad's 400 possible was good for first place, and Eugene Pierce, also a Chicagoan, came through with a 398 for top position in the any-sight prone match. The final small bore event, a four-match aggregate, went to Chester Rubin's 955 total.

On the pistol line, 55 competitors registered for the six-match schedule. S. J. Iverson, Chicago, started off by taking the lead in the .22 slow-fire championship and a similar match open to 10-inch barrel handguns by posting winning totals of 184 and 178. In the small caliber rapid-fire event, Arthur Moss, Chicago, chalked up a 188 to land in top place. A 194 was good enough to take first place award in the timed-fire event for William Frey, a local marksman, and F. R. Borgfeldt, Macomb, Illinois, turned in a winning 278 in the 60-foot three-stage event. In the aggregate of all five events, William Aiello, a dark horse who had failed to win a single event, proved that consistency and not the occasional brilliant score is often the thing that wins aggregate matches. The Chicagoan tallied 805, leading Arthur Moss by two points and third-placing S. J. Iverson by four.

#### GALLERY RIFLE AT CHARLOTTE (N.C.)

Charlotte's first indoor rifle tournament proved to be a great success. The Charlotte Rifle and Pistol Club, sponsors of the February 21st event, were naturally uneasy about the outcome since they had never before put on a shoot. The weather man threw a scare into them by promising snow for the first day, but fortunately he was wrong and the weather could not have been better. There were 76 entries in the combined rifle and pistol matches. Rifle matches were fired on the King System, permitting the firing of any match at any time. The officials found that under this system they could have handled at least 50 per cent more entries on the seven firing points.

The range, equipped with a concrete firing point and fluorescent lights, was heartily approved by the contestants, many expressing the opinion of never having seen a better indoor range. Only a few spectators were allowed on the range. A separate room was provided for registration and scoring.

In the pistol matches, Walter R. Walsh, Washington, D. C. F. B. I. agent, carried off top honors. Walsh won first place in all of the pistol matches, and on the 25-yard rapid fire target ran a string of thirty-two consecutive tens before going out for a nine.

Another highlight of the pistol matches was the arrival of W. T. (Bill) Bryan of Athens, Georgia. Without a minute's rest from a 200-mile automobile trip and without dinner he started shooting at seven-thirty P. M., Friday and proceeded to scare the daylight out of Walsh. We didn't know 'til then that a G-Man could be scared. Walsh's record was too good, however, and Bryan had to be content with second place in all events. But no one need claim any alibis because he was beaten by Walter Walsh—that boy can shoot!

The usual odd occurrences kept popping up to break the monotony for the range officer's job . . . such as the gentleman's gun that would not function because he had loaded the cartridges in the magazine backwards. Rifle matches started at eight o'clock Saturday and lasted 'til eleven that night. Boger of Kannapolis was hot enough to take the aggregate and the Swinson Trophy. Rifleman Fred Molt of Asheville failed to dominate the shoot, as is usual for him in this part of the country. Neither he nor "the wife" carried away any rifle medals, but each accounted for a share of the pistol medals—four in all!

A homemade rifle by John E. Bradley of Durham, N. C., created a lot of comment. He proved it would shoot by taking home a medal. Costner, the hard-holding cop from

Belmont, N. C., came to grief entirely by accident, and now advises all the boys from the wide-open spaces to be sure their front sights are on securely before attempting to fire an indoor match. Van Sleen, of Gastonia, set some kind of a record by not showing up, although Henry, Jr., competed and upheld the family reputation admirably.

#### NON-REGISTERED EVENTS

**CONNECTICUT—New Haven Gallery Rifle.** Firing a new high senior individual score of 197, Alfred Crowley of the Richmond Hill, Long Island, Rifle Club led his team to victory in the 13th Connecticut Gallery team match that concluded March 2nd at the Winchester range. The meet attracted a total of 1,206 shooters, 40 less than last year's high mark.

The Richmond five posted 944 to take over the team honors and nosed out the Papco Rifle Club of Paterson, N. J., and the Brooklyn Edison Rifle Club of Brooklyn, N. Y., who were deadlocked for second place with 941. The Quinnipiac Rifle Club of New Haven, five times winner of the three-day event, placed fourth in the open event and recaptured its Connecticut State title carding 934.

Closely following the local shooters were the City Bank Club of New York City with 932, the Enfield Connecticut No. 1, and the Rippowan Rifle Club of Glenbrook, tied at 930, and the Woodhaven Post 118 of St. Albans, N. Y., 928.

The Mohican Girls of Middlefield, all but one of whom were members of the team that captured last year's championship, posted a 906 on Friday and it withstood the last two days of firing. The Mohican's card was 28 points better than the Brooklyn Edison Girls, who took second prize with 878. The Narragansett five of Middlefield slipped into third spot with 841 and the Waterbury and Meriden Girls were stalemated for fourth place with 815.

The first team of Xavier High School of New York City retained its junior title, nudging out the Leavenworth High No. 1 and the Quinnipiac Juniors. The winners posted 889, three points off the score they posted to win last year's match, but the count was enough to beat the Leavenworth crew's 888 and the local Quinnipiac Juniors' total of 886.

Al Crowley scored a perfect 50 from sitting and 49's from the prone, kneeling and offhand positions for his new record of 197 for the match. Jim Lacy, veteran local marksman who fired for the Quinnipiac No. 2 team, was two points off Crowley's mark to take over second money. Lacy had a perfect 50 from prone, 49's from sitting and kneeling and dropped to 47 from offhand.

E. Landry of Enfield and A. C. Jackson of Woodhaven, L. I., were tied for third, one point behind Jim Lacy. Jack Lacy, brother of Jim Lacy and present Metropolitan champion, was in a deadlock for fourth place with H. R. Hobbs, unattached; Tom Lewis of Roslyn, L. I., and N. Kroeze of the Papcos, all posting 193.

Dorothea Schaub, who led the Mohican Girls of Middlefield to victory, was the first woman to score 190 in the 13 years of the event. The feat gives Miss Schaub the Connecticut championship and a gold medal. Marion Treat, a teammate, took second honors with 185 and Dot Minnich, defending champion, posted 184 for third place.

Joe Zuyus of Leavenworth High School carried away the juniors' high individual championship by nosing out Ralph Wyland of the Yale Freshman squad by two points. Zuyus had an even 190. Art Yeomans of the Quinnipiac Juniors placed fifth among the youths, seven points behind Zuyus.—SCOTTY MACDONALD in the *New Haven Journal-Courier*.

**WEST VIRGINIA—Wheeling Indoor Rifle.** A big crowd and red-hot competition was the experience of those fortunate enough to attend the Wheeling Rifle and Pistol Club's Second Annual Indoor Tournament, staged February 16th. Franklyn W. Thompson, Pittsburgh ace, who tied the world's 50-meter record at Akron last year, had things pretty much his way throughout the day and wound up with an aggregate score of 780 points to win the Charles N. Hancher Trophy, the W. J. Lukens Trophy, and the high aggregate Victory Trophy together with two gold medal awards.

Bob Moore, Washington, Pa., came through in the 30-shot prone match with a possible score of 300. W. Moore, also of Washington, copped runner-up position with a 299. With the Hancher Trophy Match on the line Franklyn Thompson hung up a 197 x 200 which was good for first place. Fred Dill, Columbiana, Ohio, gunner, winner of both the Hancher & Lukens Trophies last year, emerged runner-up with his 193. Anna Lou Balley, Mannington, National Junior Champ, held fourth place with her 190. Wayne Moore, Washington, Pa., won the 30-shot three-position match with a 289; Forrest Lawrence, Carrollton, Ohio, took second place money with a 288.

With a field of top flight lead-hurlers on the line in the Lukens Swiss Miss-and-Out Match, Frankie Thompson ran up a phenomenal score of 79 hits in the bull's eye, establishing an Ohio Valley record. Forrest Lawrence scored 53 hits before throwing one out into the cornfield. The Grand Aggregate found Thompson first with a 780; G. W. Moore, Washington, Pa., 778; Fred Dill, 773; F. W. Schmoeyer, 769.

Charles Cronk and Vyrion Tidrick handled the scoring without a protest and Skipper Bill Harrison and his wife were at the door greeting all shooters and extending them a welcome. We do not like to single out individuals for special comment, but think it is time to give the ladies of our club a big hand for the contributions which helped to make this shoot an outstanding success, and special thanks to Mrs. Wm. Harrison, Mrs. Merel Becker and Mrs. Arthur Ryan, who prepared a delicious lunch for the ever-hungry competitors and visitors. By all reports coming the shoot was tops for competition and as the shooters drifted from the range most of them were asking: When is the next one?—NORMAN MACLEWAN.

**DISTRICT OF COLUMBIA—Indoor Championship Rifle Team Match.** Thirty-seven 5-man teams registered for the District indoor championship matches of February 22nd and 23rd, staged by the Marine Corps Headquarters Rifle Club. In Class A the squad representing the Quantico Marine Barracks won first place trophy and medals with 1374. The Maryland U. Terps grossed the same score but went down to second by lower offhand scores. In Class B the Sparrows Point Rifle Club five scored 1316 to take class trophy, leading the Maryland U. second team by 13 points. Class C trophy and medals went to Fishburne Military School for their 1271, with the second squad of the Base Air Detachment, Quantico, in second position with 1269.

A junior trophy fell to the University of Maryland Frosh for their 1290, and five other women's teams were outscored by the National Capital Rifle Club five, with 1461. In second place, the D. C. Women's Rifle Club ran up a 1406 total.

High individual award went to B. Chew, National Capital member, with 282. Geller and Laughhead of the University of Maryland scored 281 and 280 for second and third individual awards.

## COMING EVENTS

### 1941 REGIONAL TOURNAMENTS

While it is not possible to announce all of the Regional Tournament locations and the dates of each, we are listing below those which have been established. A complete announcement will be carried in a later issue.

The areas to be covered by each Regional will in most cases remain the same as in 1940. As soon as all Regional Tournaments have been arranged, we will publish a complete outline of the territory embraced in each 1941 Region.

#### North Central Region

Rifle.....Mt. Gilead, Ohio.....July 12 & 13  
Pistol.....Jackson, Michigan.....July 26 & 27

#### Southeastern Region

Rifle.....Greensboro, N. C.....June 13 & 14  
Pistol.....Jacksonville, Fla.....June 27-29

#### Eastern Region

Rifle.....Camp Ritchie, Md.....July 2-6  
Pistol.....Camp Ritchie, Md.....July 2-6

#### Southwestern Region

Rifle.....Kilgore, Texas.....June 20-22  
Pistol.....Houston, Texas.....June 6-8

#### Pacific Northwestern Region

Rifle.....Portland, Oregon.....June 21 & 22  
Pistol.....Raymond, Wash.....July 18-20

#### Northeastern Region

Rifle.....East Haven, Conn.....Dates not set

### CLEVELAND DEWAR

April highlight for Ohioans, or, for that matter, anyone else who can get there, will be the Indoor Dewar meet to be staged at Cleveland on the 12th and 13th. Officials of the Cuyahoga Marksmen's Association promise thirteen firing points at the standard 50- and 100-yard distances, a prize schedule calling for a fifty percent return of entry fees, and ample parking space within the downtown auditorium that houses the range. Sounds like a top-notch shootin' match to wind up the indoor season with.

There are four classes of Registered Tournaments as follows:

- AA—National Matches
- A—Regional Tournaments
- B—State Championships and large District Tournaments
- C—Local Tournaments

Each Registered Tournament is so coded. Where the competitors will be classified for awarding of prizes the code is followed by an asterisk—C\* etc.

Unregistered tournaments are not coded.

#### Alabama

B May 3 & 4: State Small Bore Tournament, Birmingham. Write J. P. Prince, 1852 Princeton Avenue, Birmingham.

B May 31 & June 1: State Pistol Tournament, Birmingham. Write J. P. Prince, 1852 Princeton Avenue, Birmingham.

#### Arizona

B May 18: State Championship Tournament, Phoenix. Write Howard Hathaway, Box 71 Tucson.

#### California

C\* April 4: Tamalpais Gallery Pistol Tournament, Alto. Write H. O. Peters, Sausalito.

B\* April 5 & 6: California Small Bore Tournament, Los Angeles. Write James Pedroni, National Bank Building, Salinas.

C\* April 20: Traffic Police Monthly Pistol Tournament, San Francisco. Write E. J. Dutil, 324 16th Avenue, San Francisco.

April 20: Central California Rifle Association Big Bore Shoot, Berkeley.

B\* April 27: West Coast Annual Pistol Tournament, San Diego. Write M. Milton Kidder, 1220 Second Avenue, San Diego.

C\* May 2: Tamalpais Gallery Pistol Tournament, Alto. Write H. O. Peters, Sausalito.

May 11: 8th Annual L. F. Grimsley Trophy Shoot, Stockton. Write L. G. Little, 1707 West Rose Street, Stockton.

B\* June 21 & 22: California State Pistol Tournament, San Francisco. Write James Pedroni, Salinas National Bank Building, Salinas.

#### Connecticut

April 6: Connecticut Association Pistol Tournament, New Haven. Write L. M. Ahlberg, Middlefield.

April 20: Sodley Memorial Rifle Match, New Haven. Write Joseph Morin, 221 White Street, Hartford.

#### District of Columbia

C\* April 6: District of Columbia Pistol Championship Tournament, Washington, D. C. Write Leon Cool, Jr., 110 Gallatin Street, Washington, D. C.

May 4: Potomac Valley Small Bore and Pistol Championship, Washington, D. C. Write E. B. Tiller, 1820 Clydesdale Place, N. W., Washington, D. C.

C\* June 15: 12th Precinct Pistol Tournament, Washington, D. C. Write W. J. Couperthwait, 12th Precinct Station, Washington, D. C.

#### Florida

May 17-18: Florida State .30 Caliber Championship Matches, Winter Haven. Write M. E. Johnston, 315 Taylor Avenue, South, St. Petersburg.

#### Idaho

B April 5 & 6: Gallery Rifle Tournament, Pocatello. Write L. C. Burnham, 346 North Main, Pocatello.

#### Illinois

C\* June 8: Small Bore Rifle Tournament, Highland Park. Write Robert Spahr, 33 North LaSalle Street, Chicago.

C\* June 26: Small Bore Rifle Tournament, Highland Park. Write Robert Spahr, 33 North LaSalle Street, Chicago.

#### Indiana

April 5 & 6: Gallery Rifle Tournament, Indianapolis. Write John C. Holmes, 400 North Fourth Street, Lafayette.

C May 18: Spring Rifle Tournament, Vincennes. Write J. A. Crusier, 1431 Bayou Street, Vincennes.

B\* May 25: Mid-West Rifle Tournament, La Fayette. Write C. B. Gildersleeve, c/o Foster Shop, Lafayette.

June 1: Annual Rifle Tournament, Batesville. Write Forest Kessens, Batesville.

#### Iowa

C May 25: Restricted Small Bore Tournament, Des Moines. Competition restricted to sharpshooters and marksmen. Write G. G. Cooper, 816 Telephone Building, Des Moines.

C\* June 8: Spring Pistol Tournament, Mason City. Write Donald E. Wells, Box 262, Mason City.

B\* June 14 & 15: State Small Bore Tournament, Des Moines. Write G. G. Cooper, 816 Telephone Building, Des Moines.

#### Louisiana

B\* May 24 & 25: Louisiana State Rifle Tournament, Baton Rouge. Write Dr. E. H. Saliers, Louisiana State University, Baton Rouge.

#### Maryland

C May 25: Allegheny Rifle League Tournament, Frostburg. Write Harry Morgan, 141 Frost Avenue, Frostburg.

C\* June 8: Spring Rifle Tournament,



Sparrows Point. Write James T. Ambrose, Jr., 615 E Street, Sparrows Point.

#### Massachusetts

**April 5 & 6:** Annual Junior Team and Individual Rifle Tournament, Beverly. Write David C. McNeill, 33 Beckford Street, Beverly.

**April 19:** Annual Patriot's Day Open Shoot, West Concord. Write D. J. Hardesty, 12 De Marse Street, Maynard.

#### Michigan

**C\* June 8:** Spring Pistol Tournament, Jackson. Write R. V. Gray, Police Department, Jackson.

#### Minnesota

**B\* April 6:** Minnesota Gallery Rifle Tournament, Minneapolis. Write K. W. Cruse, Rifle Range, University of Minnesota, Minneapolis.

**B\* April 20:** Minnesota Gallery Pistol Tournament, Minneapolis. Write K. W. Cruse, Rifle Range, University of Minnesota, Minneapolis.

**May 18:** Annual Small Bore Rifle Match, Mankato. Write B. Brickley, 221 Nicollet Avenue, Mankato.

**C\* June 1:** Annual Rifle Tournament, Albert Lea. Write Art M. Jensen, Albert Lea.

#### Missouri

**B\* May 2-3-4:** Heart of America Pistol Tournament, Kansas City. Write D. H. Chiles, Police Department, Kansas City.

**B\* May 17 & 18:** Missouri State Pistol Tournament, Jefferson City. Write Paul H. Sommers, Jefferson City.

#### New Hampshire

**April 19-20:** Annual Gallery Championship Matches, Somersworth. Write H. A. Stuart, East Concord.

#### New Jersey

**April 19-20-26-27:** 50 Meter Match, Haledon. Write Eugene Linder, 20 Oxford Street, Haledon.

**May 4:** 8th Annual Amateur Rod & Gun Club 50 Meter Rifle Matches, Plainfield. Write F. Kenneth Van Hanten, 63 Hillside Terrace, Livingston.

**May 16-17-18:** 5th Annual Pistol Tournament, Rock View. Write William Lewis, P. O. Box 1420, Trenton.

**May 23-24:** 16th Annual Wilburtha Pistol Tournament, Trenton. Write N. J. State Police, Trenton.

#### New Mexico

**April 27 and May 4:** Coronado Cup Match. Write B. L. Smith, Box 905, Santa Fe.

**June 21:** State .30 Caliber Rifle Championship, Albuquerque. Write B. L. Smith, Box 905, Santa Fe.

#### New York

**April 5-6:** Gallery Championship, Brooklyn. Write Charles E. Brownell, Jr., 1822 West Tenth Street, Brooklyn.

**B\* April 19 & 20:** Niagara Frontier Gallery Pistol Tournament, Buffalo. Write Jean D. Thomas, 2520 Elmwood Avenue, Kenmore, New York.

**B\* May 17 & 18:** Hudson Valley Small Bore Tournament, Poughkeepsie. Write C. Hoyt Smith, P. O. Box 1009, Poughkeepsie.

**B May 25:** New York State Pistol Championships, Albany. Write O. E. Whitbeck, 122 Morris Street, Albany.

#### North Carolina

**B\* May 9 & 10:** State Rifle Tournament, Gastonia. Write H. M. Van Sleen, Gastonia.

#### North Dakota

**April 20:** Gallery Rifle Tournament, East Grand Forks. Write W. G. Coulter, Box 1048, Grand Forks.

#### Ohio

**B April 12 & 13:** Cleveland Indoor Dewar Tournament, Cleveland. Write Max Jensen, 3208 West 112th Street, Cleveland.

**April 19 & 20:** Ohio Team Tournament, Columbus. Write C. I. Greer, Box 123, Barber-ton.

**May 10-11:** 6th Annual Muzzle Loading Rifle & Pistol Tournament, Lima. Write R. S. Patterson, 320 West Spring Street, Lima.

**C\* May 10 & 11:** Spring Small Bore Rifle Tournament, Marietta. Write H. W. Meiser, 621 Seventh Street, Marietta.

**C May 25:** Decoration Day Rifle Tournament, Akron. Write J. C. Kelsey, 133 Highpoint Avenue, Akron.

**June 14 & 15:** Annual Muzzle Loading Rifle Match, Marietta. Write H. W. Meiser, 621 Seventh Street, Marietta.

#### Oregon

**C\* April 6:** Gallery Rifle Tournament, Astoria. Write W. R. Rowland, Astoria.

**May 18:** Oregon State Association Pistol Match, Clackamas. Write J. S. Altmas, 405 North Stanton, Portland.

**C\* May 18:** Portland Rifle Tournament, Clackamas. Write E. L. Plogg, 305 West Hall Street, Portland.

**B\* May 31 & June 1:** Medford Small Bore Rifle Tournament, Medford. Write Mrs. Ivan K. Waddell, P. O. Box 247, Medford.

**B June 14 & 15:** Oregon State Pistol Championship, Clackamas. Write J. S. Altmas, 405 North Stanton, Portland.

#### Pennsylvania

**April 20:** Spring Rifle Tournament, Allentown. Write Alfred M. Newhard, 111 East Susquehanna Street, Allentown.

**April 20:** Annual Outdoor 100 Yard Rifle Tournament, Philadelphia. Write W. H. Bahrenberg, 2006 East Orleans Street, Philadelphia.

**May 11:** Small Bore Rifle Tournament, Ambridge. Write M. A. Trapold, 538 Maplewood Avenue, Ambridge.

**C May 18:** Lehigh Valley Rifle Tournament, Allentown. Write Alfred M. Newhard, 111 East Susquehanna Street, Allentown.

**C May 24 & 25:** Vandergrift Sportsman Association Rifle Tournament, Vandergrift. Write George W. Rupp, 1029 Hancock Avenue, Vandergrift.

#### Tennessee

**B\* May 24 & 25:** Tennessee Small Bore Rifle Tournament, Knoxville. Write Henry Curtis, Black Oak Ridge, Fountain City.

#### Texas

**C\* April 5:** South Texas Indoor Pistol Tournament, Houston. Write Frank Wood, 1413 Prairie Avenue, Houston.

**B\* April 19 & 20:** Southwestern Rifle Tournament, Dallas. Write V. A. Moore, 208 North Akard Street, Dallas.

**C\* April 20:** Austin Spring Pistol Tournament, Austin. Write Weldon Hart, 2513 Jarratt, Austin.

**C April 27:** Annual Rifle Tournament, Houston. Write C. F. Hanson, 807 Shell Building, Houston.

**B\* May 11 & 12:** Southwestern Pistol Tournament, Dallas. Write V. A. Moore, 208 North Akard Street, Dallas.

**May 15 to 18:** Texas Big Bore Rifle Matches, Laredo. Write John Callan, 402 East 30th, Austin.

**C\* May 18:** Greenbelt Rifle Tournament, Quanah. Write Dr. L. G. Warner, Quanah.

#### Vermont

**B\* April 5 & 6:** Vermont Gallery Pistol Tournament, Northfield. Write Earle E. Witham, 15 North Franklin Street, Montpelier.

**B\* April 26 & 27:** Vermont Gallery Rifle Tournament, Northfield. Write Louis C. Taft, 41 Fortney Place, Barre.

**May 24 & 25:** Vermont Big Bore Tournament Civilian Team Tryouts, Northfield. Write Arthur L. Pruneau, 121 Maple Avenue, Barre.

**B\* June 21 & 22:** Vermont State Pistol

Tournament, Northfield Falls. Write Earle E. Witham, 15 North Franklin Street, Montpelier, Vermont.

#### Washington

**C\* April 13:** Buddy League Matches, Seattle. Write Walter F. Day, Police Headquarters, Seattle.

**C\* April 27:** Buddy League Matches, Seattle. Write Walter F. Day, Police Headquarters, Seattle.

**C May 11:** Capital Pistol League Match, Raymond. Write Malcolm B. Edwards, Box 776, South Bend.

**C May 25:** Capital Pistol League Tournament, Raymond. Write Malcolm B. Edwards, Box 776, South Bend.

**C June 8:** Capital Pistol League Tournament, Raymond. Write Malcolm B. Edwards, Box 776, South Bend.

#### Wisconsin

**C April 6:** Milwaukee Pistol Tournament, Milwaukee. Write Galen Rood, 4514 North Woodburn Street, Milwaukee.

**April 13:** Wisconsin State Rifle Association Gallery Rifle Tournament, Madison. Write Lew Morrison, Milwaukee Sentinel, Milwaukee.

**April 20:** Spring Gallery Rifle Tournament, Madison. Write Roy P. Harper, 834 West Lakeside Street, Madison.

**C\* April 27:** Gallery Pistol Tournament, Madison. Write Roy P. Harper, 816 West Lakeside Street, Madison.

**June 1:** State Junior Rifle Tournament, Racine. Write Colonel J. J. Ring, 1842 North 83rd Street, Wauwatosa.

**C June 8:** Milwaukee District Rifle Tournament, Racine. Write Jerry Gruber, 3049 North Second Street, Milwaukee.

**June 22:** Milwaukee District Big Bore Rifle Tournament, Racine. Write Jerry Gruber, 3049 North Second Street, Milwaukee.

#### West Virginia

**May 25:** Ohio Valley Spring Outdoor Open Tournament, Wheeling. Write J. M. Becker, 248 Fairmont Avenue, Wheeling.

### 1941 NATIONAL RANKINGS

(Continued from page 32)

- (b) Ranking will be based on the number of Masters defeated.
- (c) Competition only in Registered Events\* at Class AA, Class A, and Class B Registered Tournaments will be evaluated and competitors must compete in at least two such Tournaments, one of which must be Class AA or Class A.
- (d) Competitors must fire at least 480 rounds in individual Registered Events in the indicated classes of Registered Tournaments.
- (e) Because Pistol Ranking is intended to be based on ability with both the .22 and the center fire (.32 or larger) competitors must fire not less than 150 rounds in Registered Events\* with whichever type gun is used the least. .45 caliber events will not be considered for National Ranking.
- (f) The National Ranking lists will include the high fifty riflemen and the high fifty pistolmen for the calendar year 1941 determined as above indicated.

\* It is important to bear in mind that N. R. A. regulations permit "Special Events" to be included in the program of a Registered Tournament to lend variety to the program. Such "Special Events" are not "Registered Events". "Registered Events" are only those events fired on Official Targets and under standard conditions and courses of fire as set forth in the Official Shooting Rules—1941.



# N. R. A. GALLERY LEAGUE SERIES

## PISTOL

### No. 1 Hawkeye Conf. (Iowa)

Three Stage Course, 50', any Caliber  
Standings to February 7, 1941

	Won	Lost
Cedar Falls #1	9	2
Mason City #1	9	2
Marshalltown #1	2	9
Des Moines Moose	2	9
High team score: Mason City #1, 1415.		
High individual score: Leo Allstot, 292.		

### No. 2 Hawkeye Conf. (Iowa)

Three Stage Course, 50', any Caliber  
Standings to February 7, 1941

	Won	Lost
Cedar Falls #2	10	1
Des Moines	9	2
Marshalltown #2	3	8
Algona	0	11
High team score: Des Moines, 1350.		
High individual score: F. Morrison, 277.		

### No. 3 Hawkeye Conf. (Iowa)

Three Stage Course, 50', any Caliber  
Standings to February 7, 1941

	Won	Lost
Mason City #2	10	1
Cedar Falls #3	9	2
Marshalltown #3	3	8
Des Moines Moose #2	0	10
High team score: Cedar Falls #3, 1308.		
High individual score: E. Obele, 266.		

### Tri-Club Pistol League (Ohio & Ind.)

Slow Fire, 20 Shots

Standings to February 6, 1941

High team score: Dayton, 1418 (aggregate).  
High individual score: A. Buck, 184.

### Arrowhead Pistol League, Duluth, Minn.

Three Stage Course, 50', any Caliber  
Standings to February 2, 1941

	Won	Lost
Baudette	5	0
Warroad	4	1
Duluth	2	3
International Falls	2	3
Virginia	1	4
Ely	1	4
High team score: Warroad, 1105.		
High individual score: Alice Woods, 293.		

### Summit County Pistol League

Three Stage Course, 50', any Handgun  
Standings to February 22, 1941

	Won	Lost
Goodyear	14	1
Goodrich	14	1
Firestone	11	5
Akron Police	9	6
Babcock & Wilcox	8	7
Officers Reserve	6	9
Railroads	5	12
Portage	2	14
Seiberling	1	14
High team score: Goodrich, 1361.		
High individual score: .22 caliber, Daywalt, 286. .38 caliber, C. Benson, 272.		

## RIFLE

### Bay District Rifle League (Calif.)

20 shots each, prone and standing  
Final Standings

	Won	Lost
Napa Rifle Club	4	0
Oakland Rifle Club	3	1
Richmond Rifle & Pistol Club	2	2
Melrose Rifle Club	1	3
Oakland American Legion	0	4
High team score: Napa Rifle Club, 1528.		
High individual score: Eugene Best, 388. Ray Stoll, 388.		

### Sierra Foothill Rifle League (Calif.)

5 shots each, 4 positions, 50' and 75'  
Standings to February 19, 1941

	Won	Lost
Capital City Blue Team	6	1
Capital City White Team	4	3
Grass Valley	3	3
Lincoln	1	6
High team score: Capital City Blue Team, 961.		
High individual score: Carl Steinauer, 195. B. G. Simms, 195.		

### Southern Rifle League of Chicago

5 shots each, 4 positions, 50'  
Standings to February 8, 1941

	Won	Lost
Commonwealth Edison	7	1
University of Chicago	6	2
Lakeside Press	6	2
Chicago Bridge	3	5
Ceco	2	4
Nathan Hale	0	8
High team score: University of Chicago, 920.		
High individual score: C. J. Rubin, 191.		

### Northwest Rifle League (Illinois)

10 shots each, prone, kneeling, and standing  
Final Standings

	Won	Lost
Lakeview Rifle Club	11	2
Winnetka Rifle Club	10	3
Humboldt Park Gun Club	9	3
Westric Rifle Club	7	5
Park Ridge Rifle Club	2	10
Edison Park Legion Rifle Club	2	10
Central Rifle Club	2	10
High team score: Lakeview Rifle Club, 1419.		
High individual score: R. Weers, 290.		

### Muncie Rifle & Pistol Club (Indiana)

10 shots each, 4 positions  
Standings to February 28, 1941

	Won	Lost
Markin Hardware	13	0
Muncie Malleable Foundry	11	2
Park & Shop	9	4
Ball Bros.	8	5
Delco-Remy	8	5
Johnson Hardware	5	8
Pearson Co., Inc.	5	8
Retz Sporting Goods	4	9
Muncie Rifle & Pistol	2	11
Standard Brands	0	13
High team score: Markin Hardware, 1832.		
High individual score: Ed Anderson, 379.		

### No. 1 Rifle League of Hawkeye Conf. (Iowa)

10 shots each, 4 positions  
Standings to February 7, 1941

	Won	Lost
Des Moines	10	0
Marshalltown #1	9	2
Iowa State College	6	5
Prairie City	5	6
Centerville	1	9
Ames Faculty	1	10
High team score: Des Moines, 1916.		
High individual score: T. J. Holm, 388. C. Thomas, 388.		

### No. 2 Rifle League of Hawkeye Conf. (Iowa)

10 shots each, 4 positions  
Standings to February 7, 1941

	Won	Lost
Waterloo	11	0
Iowa City	9	2
Mason City	5	6
Cresco	5	6
High team score: Waterloo, 1921.		
High individual score: R. W. Travis, 392. Earl Bagg, 392.		

### No. 3 Rifle League of Hawkeye Conf. (Iowa)

10 shots each, 4 positions  
Standings to February 7, 1941

	Won	Lost
Des Moines	9	0
Marshalltown #2	8	1
Perry	7	2
Oelwein	6	3
Ottumwa	6	3
Mason City	6	3
Waterloo	5	4
Algona	5	4
Mt. Vernon	4	5
Tama	2	7
Marshalltown #3	2	7
Marshalltown Ladies	2	7
Colo	1	8
High team score: Marshalltown #2, 1775.		
High individual score: Fred Lenstra, 386.		

### Baltimore Rifle & Pistol Assn. (Md.)

10 shots each, prone, kneeling and standing, 50'  
No Results

### Central Kansas Rifle League

10 shots each, 4 positions  
Standings to February 10, 1941

	Won	Lost
McPherson	7	0
Salina	5	2
Lindsborg	4	3
Lyons	2	3
Canton	2	4
Minneapolis	1	5
Lincoln	1	5
High team score: McPherson, 1882.		
High individual score: Heddon Nelson, 389.		

### Allegheny Rifle League, Luke, Maryland

10 shots prone, 5 kneeling, 5 sitting, 10 standing  
Standings to February 12, 1941

High team score: Cold Spring, 1383.  
High individual score: A. S. Hoffa, 283.

### Central Michigan Rifle & Pistol Assn.

10 shots each, prone, sitting and standing, 50'  
Standings to February 15, 1941

	Won	Lost
Holland Rifle Club	6	0
Pontiac Rifle & Revolver Club	5	0
Shiawassee Rifle Club	5	0
Central City Gun Club	5	1
Saginaw Gun Club	4	2
Midland Rifle Club	4	2
19th Macabees Rifle Club	3	3
Paw Paw Rifle Club	3	3
Saline Rifle Club	2	3
Ann Arbor Rifle Club	2	3
Borderline Rifle Club	1	4
Flint Rifle & Pistol Club	1	5
Capitol City Rifle Club	1	5
Wyandotte Rifle Club	0	5
High team score: Holland Rifle Club, 1440.		
High individual score: Wilbur Miller, 296.		

### Minnesota Arrowhead League

10 shots each, 4 positions  
Standings to February 11, 1941

	Won	Lost
Virginia Rifle & Pistol Club	5	0
Hibbing Rifle & Pistol Club	4	1
Nemadji Rifle Club	3	1
Northwestern Gun Club	1	4
Cook Rifle Club	1	4
Eveleth Rifle & Pistol Club	1	5
High team score: Virginia Rifle & Pistol Club, 1536.		
High individual score: Roy Emerson, 392.		

### Metropolitan Intercollegiate League (N. Y.)

5 shots each, 4 positions, 50'  
Standings to February 22, 1941

	Won	Lost
New York University	7	0
Polytechnic Day Division	4	1
Columbia	4	3
Polytechnic Evening Division	4	4
Cooper Union	1	6
Brooklyn College	0	6
High team score: New York University, 923.		
High individual score: Karl Posch, 192.		

### Hudson Valley Rifle League (N. Y.)

10 shots each, prone, sitting or kneeling, and standing  
Standings to January 31, 1941

	Won	Lost
Northern Division		
General Electric (N)	4	0
New York Central	3	1
Glenoga	3	2
Moreau	2	2
Victory	1	3
Fort Edwards	0	5

### Southern Division

	Won	Lost
Wild Life	4	1
Cossackie	3	1
Forbes	3	1
Pittsfield	2	3
General Electric (S)	2	3
Columbia	0	5
High team score: General Electric (N), 1445.		
High individual score: K. Lange, 296.		

### Long Island Assn. "A" (N. Y.)

5 shots, 4 positions, iron sights  
Standings to February 27, 1941

	Won	Lost
City Bank	8	2
Roslyn	7	4
Edison	5	4
Woodhaven	5	6
Civilian	5	7
Metropolitan	3	5
Richmond Hill	3	8
High team score: City Bank, 957.		
High individual score: Al Crowley, 197.		

**Long Island Assn. "B" (N. Y.)**

5 shots, 4 positions, iron sights

Standings to February 27, 1941

	Won	Lost
Briar Rod	11	3
New York & Queens	10	5
Cypress Hills	10	5
Poly Day	9	5
Edison Girls	9	7
Poly Evening	7	7
Chase Bank	6	7
Equitable A	6	9
Metropolitan B	6	9
Equitable B	0	15

High team score: Edison Girls, 925.  
High individual score: Hugh Smith, 191.**Twin City Rifle League (Minn.)**

10 shots each, 4 positions, 50'

Final Standings

	Won	Lost
University of Minnesota	9	0
Minneapolis	8	1
Northwestern	7	2
St. Paul	6	3
St. Thomas	4	5
Cretin	1	8
Little Gophers	3	6
Naval R. O. T. C.	1	8
United Sportsmen	1	8
Cretin Alums	1	8

High team score: 10 men, Univ. of Minn., 3769.  
5 men, Minneapolis, 1949.

High aggregate average: Dr. E. O. Swanson, 393.5.

**Delaware & Chenango Rifle League (N. Y.)**

10 shots, 4 positions, 50'

Standings to February 19, 1941

	Won	Lost
Sidney White	13	2
Norwich	11	4
Sidney Red	3	12
Sidney Blue	2	11

High team score: Norwich, 1905.

High individual score: R. Beilhart, 388.

**Red River Valley League (North Dakota)**

10 shots, 4 positions

Standings to February 22, 1941

	Won	Lost
Forks A	6	0
Thief River A	4	2
Roseau B	3	2
Forks B	4	3
Bronson A	3	3
Thief River B	3	3
Bronson B	3	4
Strandquist B	2	4
Strandquist A	2	4
Roseau A	1	5

High team score: Forks A, 1590 (with handicap).  
High individual score: Leo Vilz, 389 (without handicap).**Northern Ohio Rifle League**

10 shots each, prone, kneeling and standing

Standings to February 20, 1941

	Won	Lost
Toledo	7	1
Sandusky	5	3
Port Clinton	5	3
Fostoria	4	4
Bowling Green	2	6
Fremont	1	7

High team score: Sandusky, 1418.

Toledo, 1418.

High individual score: Swigart, 293.

**Southern Ohio Rifle League**

10 shots each, prone, kneeling and standing

Standings to February 20, 1941

	Won	Lost
Upper Sandusky	7	1
Lima	6	2
Findlay	5	3
Columbus Grove	4	4
Tiffin	1	6
Kenton	1	6

High score team: Upper Sandusky, 1423.

High individual score: Hugh Davis, 294.

**Summit County Rifle League (Ohio)**

10 shots each, prone, kneeling and standing

Standings to February 10, 1941

	Won	Lost
Medina	22	0
Canton	19	3
Zeppelin	15	7
Firestone	15	7
Portage	14	8
Goodrich	13	9
General	12	10
Post 209	8	14
Babcock & Wilcox	7	15
Wadsworth	4	18

Grotto	1	21
Kenmore	1	21

High team score: Medina, 1449.

High individual score: Larry Wilkins, 297.

**Central Ohio Rifle League**

10 shots each, prone, kneeling and standing, any sights

Standings to March 2, 1941

	5 high scores
Zanesville	5669
Marietta	5628
Grove City	5570
Chillicothe	5568
Columbus R. & R.	5553
Newark	5526
Columbus Varmints	5506
Washington C. H.	5468

High team score: Zanesville, 1139.

High individual score: Vernon Wood, 290.

**Allegheny Valley Rifle League (Penna.)**

5 shots each, 4 positions, 50'

Standings to February 28, 1941

	Won	Lost
Kittanning	9	0
Curtisville	6	3
Oakmont Legion	6	3
Tarentum	4	5
Freeport	4	5
Fort Hand	4	5
Gulf Research	2	6
Ford City	0	9

High team score: Kittanning, 951.

High individual score: K. Yount, 198.

**Puget Sound Rifle League (Wash.)**

5 shots each, prone, sitting, kneeling and standing, any sights

Final Standing

	Won	Lost
Seattle Rifle & Pistol Assn. Blues	10	0
Tacoma Rifle & Revolver Club	8	2
U. S. Coast Guard	6	4
U. S. Naval Reserve	6	4
Puget Sound Rifle Club	6	4
Everett Rifle Club	5	5
Seattle Rifle & Pistol Club Reds	5	5
North End Rifle Club	2	8
Kirkland-Redmond Rifle & Pistol Club	2	8
Marine Corps League Rifle Club	1	9

High team score: Seattle Blues, 751.

High individual score: Vern Haroldson, 193.

**Northern West Virginia Rifle League**

5 shots each, 4 positions, any sights

Standings to February 28, 1941

	Won	Lost
Mannington	9	0
Fairmont	6	3
Clarksburg	5	4
Hundred	5	4
Shinnston	2	7
Fairview	1	8

High team score: Mannington, 950.

High individual score: Kenneth Root, 195.

B. M. Burgess, 195.

**Fox River Valley Rifle League (Wis.)**

4 shots prone, sitting, kneeling and 8 standing, 50'

any sights

Standings to January 25, 1941

	Won	Lost
Superior	3	0
New Auburn	3	0
Ladysmith	2	1
Fond du Lac	2	1
Kohler	2	1
Oshkosh	2	1
Horicon	1	2
Manitowoc	1	2
Owen	1	2
Ripon	0	3
Shawane	0	3
Sheboygan Falls	0	3

High team score: Ladysmith, 956.

High individual score: Emerson, 196.

Van Tassel, 196.

**Inland Empire Rifle League**

10 shots, each of 3 positions

Final standings

	Won	Lost
Boise	10	1
Belgrade	9	2
Anaconda	8	3
Orofino	8	3
Spokane	7	4
Yakima	6	5
Whitefish	6	5
Priest River	4	7
Grand Coulee	3	8
Fort Colville	3	8
Clarkston	1	10

**CLASS B**

	Won	Lost
Corvallis (Hamilton, Mt.)	15	0
Kellogg	12	3
Grangeville	12	3
Nampa	11	4
V. F. W. Jr.	10	5
Enterprise	10	5
Belgrade	9	6
Pasco	9	6
Sandpoint	8	7
Metalline Falls	7	8
Spokane	6	9
Idaho	5	10
Yakima	3	12
Leavenworth	2	13
La Grande	1	14
Toppenish	0	15

**CLASS C**

	Won	Lost
Pendleton	11	0
Belgrade	10	1
Spokane	9	2
Grand Coulee	7	4
Kalispell	7	4
Wenatchee	6	5
Metalline Falls	5	6
Clarkston	3	8
Odessa	3	8
Boise	3	8
Pasco	1	10
Yakima	1	10

**CLASS D**

	Won	Lost
Merrill Legion	9	0
Belgrade	8	1
Kellogg	7	2
Oroville	6	3
Malin (Oregon)	5	4
Metalline Falls	4	5
Harrington	3	6
West Valley Hi.	1	8
Yakima De Molay	0	9

**National Postal League Series****PISTOL**

Standings to February 28th. Asterisks show winners in match four.

**No. 3 N. R. A. Three Stage Pistol League**

50 feet

	Won	Lost
First National R. & R. Club	3	0
*Minneapolis Pistol Club	2	1
Denver Police P. & R. Club	2	2
*Seward R. & Sportsmans Club	1	2
New York Telephone Gun Club	0	2

**No. 1 N. R. A. Three Stage Pistol League**

50 feet

	Won	Lost
*Chicago Rifle Club	4	0
*Piscataqua R. & R. Club	3	0
Gardner R. & P. Club	3	1
*Memphis R. & R. Assn.	2	2
Boulder R. & P. Club	2	2
*Roslyn R. & R. Club #2	1	2
Allenhurst Police Gun Club	0	3
Kalamazoo Revolver Club, #3	0	4

**No. 2 N. R. A. Three Stage Pistol League**

50 feet

	Won	Lost
*Capitol Pistol Club #1	4	0
*Gainesville R. & P. Club	3	1
*Flint R. & P. Club	3	1
Kalamazoo Revolver Club, #1	3	1
*Capitol Pistol Club #2	2	2
East St. Louis R. & P. Club	2	2
*Birmingham R. & P. Club	1	3
Hope Valley Pistol Club	1	3
Citizens R. & R. Club, #2	1	3
Kalamazoo Revolver Club, #2	0	4

**N. R. A. Three Stage 20 Yard Pistol League**

	Won	Lost
*El Paso Pistol Club	4	0
*Post Office R. & P. Club	3	1
Citizens R. & R. Club #1	3	1
*Berkeley Revolver Club	1	3
Buffalo Shooting Club #1	1	3
Buffalo Shooting Club #2	0	4

**N. R. A. Three Stage 25 Yard Pistol League**

	Won	Lost
*Tampalpa Revolver Club	3	0
St. Paul Municipal R. & P. Club	3	0
*Monmouth Pistol Club #1	1	2
Oneonta R. & R. Club	1	2
Monmouth Pistol Club #2	0	4

## N. R. A. New York Three Stage Pistol League

50 feet

	Won	Lost
*Roslyn R. & R. Club, #1	4	0
*Attica Prison Guards	3	0
*New York Central A. A. R. & R. Club	3	1
*Buffalo R. & R. Club	2	2
Fort Stanwix R. & R. Club, #2	2	2
Iroquois Pistol Club, #1	1	2
Yawadnac R. & R. Club	1	2
Fort Stanwix R. & R. Club, #1	0	3
Iroquois Pistol Club, #2	0	4

## N. R. A. Slow Fire Pistol League

50 feet

	Won	Lost
*Minneapolis Pistol Club	4	0
*Capitol Pistol Club	4	0
*Boise R. & P. Club	3	1
*Corpus Christi R. & R. Club	2	2
*Capitol Pistol Club, #2	2	2
Gardner R. & P. Club	2	2
Attica Prison Guards	2	2
*Gainesville R. & P. Club	1	3
*Hope Valley Pistol Club	0	4
A. P. Gardner R. & R. Club	0	4

## RIFLE

Standings to February 28th. Asterisks show winners in match four.

## N. R. A. Rifle League for 75 Feet

	Won	Lost
*Boston R. & R. Club, #1	4	0
*Boston R. & R. Club, #2	2	2
Post Office R. & P. Club	2	2
Monte Vista R. & P. Club	0	4

## N. R. A. Western Rifle League

	Won	Lost
*Royal Gorge Gun & Pistol Club	4	0
*Seward R. & Sportsmans Club	4	0
Boulder R. & P. Club	3	1
*Boat Hill Gun Club	2	2
*Naval Marine Post #101 R. & P. Club	2	2
Baker Rifle Club, #2	2	2
*Cloud Peak R. & P. Club	1	3
Y. M. C. A. Rifle Club	1	3
Fort Wingate Gun Club	1	3
Bishop R. & P. Club, #2	0	4

## N. R. A. Oregon Rifle League

	Won	Lost
*Gresham Rifle Club	4	0
*Portland Rifle Club #1	4	0
Pendleton R. & P. Club	3	1
*Portland Rifle Club, #2	2	2
*Rose City Legion Rifle Club	2	2
*Toledo Civilian Rifle Club	2	2
Harney Co. R. & P. Club	2	2
Molalla Rifle Club	1	3
Esco R. & P. Club	0	4
Lostine Civilian Club	0	4

## N. R. A. California Rifle League

	Won	Lost
*Searles Lake Rifle Club	4	0
*La Brea Rifle Club	4	0
*Los Banos Rifle Club	3	1
Tangle & Twist Fishing Club	3	1
*Scott Valley R. & P. Club	2	2
Harbor Rifle & Pistol Club	2	2
*Bishop R. & P. Club	1	3
Bakersfield Rifle Club	1	3
Delta Rifle Club	0	4
Monte Vista R. & P. Club	0	4

## N. R. A. Mountain States Rifle League

	Won	Lost
*Murray R. & R. Club, #1	4	0
*Baker Rifle Club, #1	4	0
*Ekalaka Rifle Club	3	1
Glendive R. & P. Club	2	2
Logan R. & P. Club	2	2
*Murray R. & R. Club, #2	2	2
Custer R. & P. Club	1	3
Union Pacific Rifle Club	1	3
*Legion Post 79	1	3
Parkston Rifle Club	0	4

NOTE: Correction on Match #3—\*Baker Rifle Club, #1, 1471—Parkston, 1316. Baker was marked "unreported."

## N. R. A. Montana-Idaho Rifle League

	Won	Lost
*Wallace Rifle Club	4	0
*Whitefish Rifle Club	4	0
*Havre R. & P. Club	3	1
*Manhattan Rifle Club	3	1
*Anaconda R. & P. Club	2	2
*Elk City Gun Club, #2	1	3
Elk City Gun Club, #1	1	3
Bozeman R. & P. Club, #1	1	3
Bozeman R. & P. Club, #2	1	3
Lakeside Rifle Club	0	4

## N. R. A. East-West Rifle League

	Won	Lost
*State College of Washington	4	0
*Belgrade Rifle Club	4	0
Grand Coulee Gun Club, #1	3	1
*Salinas Rifle Club	3	1
Mason-Dixon Rifle Club	2	2
*Longview Rifle Club	2	2
*Comanche Rifle Club	2	2
Grand Coulee Gun Club, #2	0	4
Corpus Christi R. & R. Club	0	4
Square Circle R. & P. Club	0	4

## N. R. A. Southern Rifle League

	Won	Lost
*Reidsville R. & R. Club	4	0
*Muscle Shoals R. & P. Club	4	0
*Charlotte R. & P. Club	3	1
*Volunteer R. & P. Club	3	1
Birmingham R. & P. Club	3	1
*Enka R. & P. Club	1	3
*Greensboro R. & P. Club	1	3
Greenville Rifle Club	1	3
Cherokee R. & P. Club	0	4
Fort Lauderdale R. & P. Club	0	4

## N. R. A. Minnesota-Michigan-Vermont Rifle League

	Won	Lost
*Austin Rifle Club, #1	4	0
*Central City Gun Club	4	0
Woodstock Rifle Club, #1	3	1
*Iron River R. & R. Club	3	1
Capitol City Rifle Club	2	2
*Hematite R. & P. Club	1	3
St. Mary of Redford Gun Club	1	3
Superior Rifle Club	1	3
*Vergennes R. & P. Club	1	3
First National R. & R. Club	0	4

## N. R. A. Northern Tier Rifle League

	Won	Lost
*Batesville Rifle Club	4	0
Lafayette Post 11 A. L. Rifle Club	3	0
*Austin Rifle Club #2	3	1
*Danville R. & P. Club	3	1
*Forest Park Rod & Gun Club	2	1
Woodstock Rifle Club, #2	1	3
Legion Rifle Club	0	3
Lincoln Park Zephyrs R. & P. Club	0	3
Columbia Gun & Rod Club	0	4

## N. R. A. New England Rifle League

	Won	Lost
*Middletown Rifle Club, #1	4	0
*East Warren Rod & Gun Club	4	0
Manchester Amer. Leg. Rifle Club	3	1
*Greenfield Rifle Club	3	1
Old South Rifle Club	2	2
*Adams Gun Club	2	2
Leyden Rifle Club	1	3
Croton River Rifle Club, #1	1	3
Middletown Rifle Club, #2	0	4
A. P. Gardner R. & P. Club	0	4

## N. R. A. Pennsylvania-New York Rifle League

	Won	Lost
*Altoona R. & P. Club	4	0
Canandaigua R. & R. Club, #2	3	0
*Knapp Rifle Club	3	1
Clearfield Creek R. & P. Club	2	1
*Danville Gun Club, Inc.	2	2
Robinson Clay Products Rifle Club	1	3
*Fort Stanwix R. & R. Club, #2	1	3
*Fort Stanwix R. & R. Club, #3	0	3
Croton River Rifle Club, #2	0	3

## N. R. A. New York Rifle League

	Won	Lost
*Rochester Rifle Club	4	0
*Elmira R. & P. Club	4	0
*Oneida Rifle Club	2	1
Twin City R. & P. Club	2	1
Lockport R. & P. Club	2	1
Hornell Rifle Club	1	3
*Canandaigua R. & R. Club, #1	1	3
American Legion Rifle Club	0	3
Fort Stanwix R. & R. Club, #1	0	4

NOTE: Correction on Match #3—\*Lockport R. & P. Club, 1513—Canandaigua R. & R. Club, #1, 1506.

## STOLEN GUNS

Luger .30 caliber auto pistol, serial 8989, smooth grips, 3 $\frac{3}{4}$ -in. barrel. Notify Aikens & Co., Barre, Vermont. Reward.

Remington Rangemaster M-37, serial 00106, rear sight missing, in sheepskin carrying case with name Waldron C. Biggs in two places. Stolen February 6th. Notify Sheriff Henry C. Lawson, Montpelier, Vt., or Chief of Police Dennis P. Donahue, Barre, Vt.

## OBITUARIES

### CAPTAIN EDWARD J. LANGRISH, JR.

An outstanding figure in police education in the East, and a nationally known marksman, Captain Edward J. Langrish, Jr., died at his home in Hartford on February 20th. He was 60 years old.

Although police work was Captain Langrish's foremost interest, he was likewise nationally known as a marksman. He was expert in the use of firearms, and especially in hand-gun shooting. He early became instructor in firearms for the Hartford Police Department, and was popularly said to have been able to "shoot more holes in a bullseye than the eye could count." A graduate of the Camp Perry School, Police Division, he frequently took teams of Hartford police to compete in national matches there.

His interest and achievements in firearms were definitely a part of his life and work as a police officer. In 1929 he designed a silhouette target now used in police training schools throughout the country. Known as the Langrish Limbless Target, it was uniquely adapted to police work, being marked out in such a way as to teach the policeman to bring down a criminal without killing him.

Captain Langrish's interest in firearms also was incorporated with police work in another way. He gave special attention to weapons used by gangsters, and in the course of his many lectures delivered through the East on police methods, he frequently demonstrated his collection of mobsters' guns.—Hartford Courant.

### JAMES HAYNES

The gun-collecting fraternity loses a charter member in the death of James R. Haynes, 74, old-time resident of Charlotte, North Carolina, and an enthusiastic gatherer of the firearms of yesteryear. A lineal descendant of John Cheek, friend of Captain John Smith, Mr. Haynes inherited from his forebears a love of old firearms and brought together a fine collection of early American weapons. He died February 14th in Charlotte.

### CHRISTOPHER GEORGE

N.R.A. Member Christopher George, 37, who left his home in New York to fly for the Canadian forces, was fatally injured recently when the plane he was piloting crashed and burned in an attempted take-off near Montreal. With Mr. George was a radio operator, also killed in the crash, and the second pilot, a Californian, who died several hours later in a Montreal hospital.

### EDWARD KENT

It is with great sorrow that we report the death of Edward Kent of Dayton, Ohio, on October 15, 1940. A true friend to countless riflemen and pistolmen, Mr. Kent had been an employee of the National Cash Register Company for 24 years. He had been ill for 18 months but prior to that time had been secretary-treasurer of the N.C.R. Rifle Club of Dayton and a past president of the Dayton Pistol Club and a life member of the N.R.A. Our association and its affiliated clubs, leagues and individuals have lost a real friend. We extend our sympathy to his parents, and are sure that they know the real esteem in which their son was held by all who knew him.—C. G. KALLENSSEE.

## CHALLENGES

The girls' rifle team of the Twin City Rifle, Revolver and Pistol Club, North Tonawanda, New York, wishes postal matches with similar teams. Twenty shots prone, ten competitors, five high to count, scopes or iron sights optional. Contact R. R. Bell, 306 Shurtle Place, North Tonawanda, New York.



# For Young Shooters — a Real



**MODEL 69-A TARGET RIFLE**

Husky stock of genuine walnut—non-slip butt, right-height comb, pistol grip, deep semi-beavertail forearm, regular barrel swivels and army type 1-inch leather shooting sling-strap. Time-tested Winchester modern Speed Lock bolt action, with housed bolt head and precision headspace. 25-inch barrel, bored for target shooting and tapped for mounting a Winchester telescopic sight; for .22 Long Rifle cartridge Winchester 80 extension rear peep sight and Winchester post front sight. Thumb-lever firing-pin safety lock. Regularly furnished with single-shot adaptor; 5-shot magazine instead, on order, or as an extra.

Front sight of Target rifle

Single-shot adaptor—fits in magazine well

Winchester 80 extension rear peep sight of Target rifle; also release button for single-shot adaptor or magazine

Thumb-lever Safety, open rifle

Action dismantled—same in both rifles

Easy to load—bolt partly



# Real Target Rifle at Low Cost

Model 69-A Target  
and Match styles

TWO NEW

.22 TARGET NUMBERS BY

# WINCHESTER

TRADE MARK

**H**ERE'S the real solution to your problem of adequate rifle equipment at rock-bottom cost for those young shooters you've taken under your wing. Whether your interest is in an individual, or whether you have the responsibility of coaching some junior team, you will find these new Winchester target .22's just the right equipment because they provide the highest accuracy and efficiency possible at their low price.

These new low-cost, light-weight, completely-equipped Winchesters, the Model 69-A in Target and Match styles, are ideal equipment for all beginners, particularly members of junior rifle clubs in schools, 4-H Clubs, N. R. A. junior clubs, American Legion juniors, Boy Scout troops and summer camps.

They are styled and operate exactly according to the best modern target rifle standards. They are light enough—about 6 lbs. with sling strap—for any boy, girl, or other beginner ready to be coached in competitive target shooting with regular equipment. Heavy enough, though, for excellent practice or fine short-range match shooting, indoors and outdoors. They were developed by the same Winchester engineering staff that produced the Model 70 "bull gun" and the Models 52 and 75 small bore target rifles. They are adequate equipment in every sense of the word—yet they are basically *low cost*!

Ask your dealer about them now! Or you can obtain a descriptive folder free by addressing a letter or post card to Department 2AP.

## MODEL 69-A MATCH RIFLE

Designed especially for club use; same as Model 69-A Target rifle in all ways except for sights—shown at right



**WINCHESTER REPEATING ARMS COMPANY**  
Division of Western Cartridge Company  
NEW HAVEN, CONN., U. S. A.

Match rifle's rear sight—  
Lyman 57E, extension peep  
with micrometer setting,  
graduated for  $\frac{1}{4}$  minutes  
of angle



Match rifle's front sight—  
post style, on ramp,  
with cover







Swift, H. P. Lovell and Zipper

#### .228 Ackley Magnum

P. O. Ackley of Roseburg, Oregon, is another experimenter who has decided the .257 Roberts or 7-mm. case has the right capacity for attaining maximum efficiency with small-bore barrels. He uses the larger bullet diameter (.228-inch) of the .22 Savage Hi-Power 70-grain bullet and the oversize 63-grain Sisk bullet. To provide a universal source for obtaining cases he also makes his .228 Magnum on the .30-'06 case for those who prefer it. He has used as much as 43.0 grains of HiVel No. 2 powder behind the Savage 70-grain bullet, but advises others to approach 42.0 grains only and then with caution. The 70-grain bullet has given him appreciably better penetration in steel than the 63-grain bullet at all ranges. Such odd loads as 28 and 29 grains of No. 1204 behind the 63-grain bullet and 37.5 grains Pyro D. G. behind the 70-grain bullet are being used by his customers.

#### The Miller .22 Magnums

I began to get reports on the .22-caliber and .25-caliber Magnums as made by Ralph Waldo Miller three years ago, from E. G. Little. Although the tiny 40-grain bullet was used in the .22, it kept up with the .25 Magnum on such game as Catalina goats and pigs even over the longer ranges. E. G. Little also killed wild burros with the 40-grain bullet driven at a reported 4400 f.-s. The first Varminter rifles were: an M-37 Remington barrel with 16-inch twist on the M-54 Winchester action and a Sukalle barrel with 14-inch twist on the 30-S Remington action. In the Magnums Sukalle barrels with 14-inch twist were largely used. This load is, of course, very flat in trajectory over 250 yards. Even the modified load of 50 grains No. 4320, and the 40-grain Sisk Express bullet, gave Little good kills on goats and pigs.

Both the .22 and .25 Magnums are now built on the .275 H. & H. Magnum case. In the Miller .22 Magnum the minimum load is 10 grains heavier than is usually reported and charges run as much as 33% heavier than normal. The maximum (estimated) velocity reached is 5000 f.-s. These heavy loads were fired in fairly light, tapered barrels and gave inch-size 5-shot groups at 100 yards. As much as 69 grains of No. 4350 was used in the 70-grain case. Specific loads were: 60 grains of No. 4064 and 65 grains of No. 4350 behind the 40-grain Sisk Express bullet, and 60 grains of No. 4350 with the 55-grain 8-S bullet.

Last year I had further reports on the Miller .22-Magnum from Bill Corson who dubbed it variously, the .22-60 and .22-70. It is the same 70-grain case with an improved shoulder. Some of the loads used were: 53.5 grains of No. 4064 with the W-M 55-grain 8-S bullets, also 62 grains of No. 4350; with the 40-grain Sisk Express, 66 grains of No. 4350 and up to 61 grains of No. 4064. With the W-M 45-grain 8-S bullet 60 grains of No. 4350 was very successful on game. The accuracy reported is most excellent and the flat trajectory reported indicates a high velocity, not as yet chronographed.

#### Davis .22 Sniper

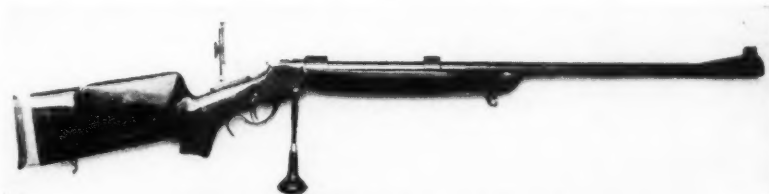
R. E. Davis uses the .30-'06 case necked down to take .22 bullets and .25-caliber bullets. The M-37 Remington .22 barrel is featured on the Davis Sniper. His Grand Island firm advocates the heavier .22 bullets, because the wind blows often and hard out there in Nebraska. One load formerly used was 42.5 grains of 4064 behind the 55-grain Sisk Express Magnum bullet. In a 30-mile crosswind this required a hold-off of 2½ inches at 190 yards while the 35-grain Sisk bullet blew 18 inches when fired from the .22 Hornet. The .22 Sniper load bagged six "poodles" at ranges between 180 and 220 yards, while the Hornet got only one, and that at only 80 yards.

On another day the .22 Sniper was tried against a .22 Lovell in an 18-mile crosswind. The latter had the Sisk 50-grain Lovell bullet and required twice as many shots to bag an equal number of "poodles"; thirteen for each rifle. The .22 Sniper was loaded with 55-grain Sisk bullets to 4000

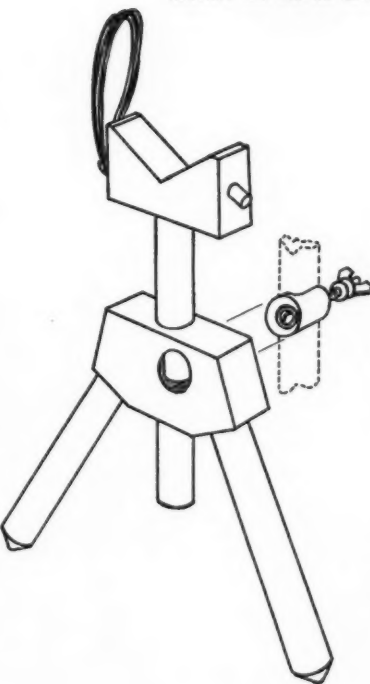
f.-s. In a field test, at about ¼-mile, each load was fired five times holding 3 feet into the wind and 3 feet high. The Lovell bullets dropped and drifted between five and six feet. Those Sniper-fired bullets having 6-caliber heads dropped and drifted between 1½ and 2 feet. Those Sniper bullets having 8-caliber heads dropped and drifted between 1¼ and 1½ feet. These reported figures were not scientifically obtained, but it is clear that the 50-grain bullets from the .22 Lovell dropped and drifted about four times as far as the 55-grain bullets from the .22 Sniper. The velocity of the .22 Lovell bullets is unknown, but they penetrated ⅝ inch in steel and seemed to be full of power.

In a later check, the .22 Sniper was fired with the 8-caliber 55-grain bullets at 4140 f.-s. in a 24-mile crosswind. The observed drop was 2½ to 3 feet and the drift 4 to 4½ feet. The distance was in the neighborhood of 500 yards, the scope being set for 200 yards. The velocities reported above were taken on a ballistic pendulum at 15 feet and are believed to be conservative, as the factory .220 Swift registers from 3950 to 4000 f.-s. on it in parallel tests. As compared with the .218 Bee, which requires from a dozen to fifteen shots per "poodle" bagged in that windy country, the .22 Sniper with its heavier bullets and higher velocity makes straight runs and only an occasional miss at considerably longer ranges.

In the latest wind test the 55-grain bullet with 8-caliber ogive was tried in a 16-mile crosswind at 275 yards. At 2300 f.-s. it blew 30 inches; at 3400 f.-s., 23¼ inches; and at 4000 f.-s., only 5¼ inches. There is some



Above: the 30-'06 S.S.; Below: the muzzle rest



Automatic Ejector. The accompanying cut, sent in by Paul Ratliff of N4912 Market Street, Spokane, Wash., shows a Winchester S.-S. with a 30-inch barrel and a palm rest which is adjustable and detachable. The barrel tapers from 1½ inches at the breech to ¾ inch at the muzzle and the outfit weighs 12¼ pounds with Vernier peep and globe sights. Its claim to distinction is the caliber, .30-'06, and the fact that it will not only extract but eject fired cases. So Paul claims; and also five shots in 8 inches at 500 yards. For details of the altered extractor write him, as the gunsmith does not want his name divulged. J. E. Gebby has converted several of these Winchester S.-S. rifles to extract the rimless (.250 Savage) Varminter case, and the bigger foreign Martini actions are simply converted to extract the .30-'06 cartridge. For example, the Rudolf Hammerli and Rudolf Elmer Martini actions can be so converted.

Muzzle Rest. This is the month of beckoning fields, to the average rifleman, and it is an appropriate time for presenting a kink which has helped our holding on crows and chucks from prone position. It is as accurate as any muzzle-and-elbow arrangement and it has the advantage of maximum portability. The V-rest for the gun-muzzle is adjustable for height as may be noted in the sketch. It is attached quite simply by rubber bands.



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MOSSBERG DE LUXE AUTOMATIC and  
INTERNAL ADJUSTMENT SCOPE



Great new streamlined, military-type, .22 cal. automatic (Model 51M) that shoots 15 shots fast as you can pull the trigger. Straight line feed—22 regular or high speed Long Rifle cartridges. Mossberg 4-power Scope (Model 5M4) snugles down close to the barrel, where you want it. Internal "click" screw adjustments move cross hair reticule. A twist of the fingers sets ranges—25 to 100 yds. A combination that's just about all a shooter could ask!

.22 cal. Automatic Model 51M **\$1875\*** 4 power Scope Model 5M4 **\$595**  
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**"Rega" BULLETS**

The new bonded core H.S. soft-point bullets; .257 cal., 70 grs.; for all .25 cal. rifles. \$1.50 per 100.

Sample lot—15 for 25¢

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food for thought there. All three loads had a common zero, within an inch, at 75 yards on the same occasion.

**Gipson .22 High Power**

Vernor Gipson is another well-known builder of custom guns who uses the .257 Roberts case necked for .22-caliber bullets. His loads are 31 grains of No. 3031 with the 55-grain bullet and 34 grains with the 45-grain bullet. That latter load has given under minute-of-angle groups. The power is apparently under that of the .220 Swift and above that of the .219 Zipper and 2-R Lovell.

**.240 Super Varminter**

In his early experiments with high velocity .22-caliber rifles J. E. Gebby discarded the .257 Roberts case as inadequate in capacity for the 70-grain bullet. About a year later he was getting 3500 f.-s. with this Savage bullet and 3800 f.-s. with the 63-grain Sisk bullet in a different case, the .275 H. & H. Magnum. Then he tied up with J. B. Smith on the .22 Varminter based on the .250 Savage case, and the .227 Magnum was dropped. Finally (1939), the .240 Super Varminter was designed and developed, Gebby making the rifles and Smith the cartridges as formerly with the .22 Varminter. The .270 Winchester case was now necked to take special .24-caliber bullets of 75-grain weight. The charge was 58 grains of No. 4350 in the W. R. A. case and up to 60 grains in the Western case.

We tried 60 grains of No. 4064, and the 75-grain bullet gave us greater penetration in steel than any previously witnessed. This was nearly 40% more than any we had obtained with the .220 Swift on the same metal. The accuracy indicated by our zero-shooting groups was only fair, on account of fliers. The normal groups went into less than 3 inches at 200 yards. With 60 grains of No. 4064 the impact was 2½ inches low at 200 yards with the 100-yard zero, on aim. With 58 grains of No. 4064 the 75-grain bullet landed only 1½ inches low at 200 yards when zeroed at 100 yards. The 60-grain load gave 4000 f.-s. m. v. in a standard factory ballistics test.

**McCrea .230 Thunderbolt**

For a time, Hervey Lovell made the .230 Lovell Magnum on the .275 H. & H. Magnum belted case and then he dropped it in favor of the Lyman McCrea Thunderbolt. Two of Lovell's customers reported excellent results. Dr. Brabec, out in Nevada, had fired 3000 rounds through his .22 Express, and he noticed the .230 Magnum had considerable more punch on coyotes and effectiveness on crows beyond 200 yards as compared with the .22 (6.5-mm.) Express

and the .220 Swift. J. F. Mutter, up in Alaska, used 56 grains of No. 4350 and the 70-grain Sisk bullet in his .230 Magnum and found it had nearly one-half the trajectory of the .30-'06 over 600 yards. He said it made 300 yards practically a point-blank range. Mutter's only criticism was that the brass tended to flow forward inside the neck, as in the .220 Swift, and that cases would last for only 15 or 20 reloads. He called it a superlative performer and had no desire to increase his load.

Now it is supplanted by the .230 Thunderbolt, made by L. A. McCrea, who swears by the big belted case when it is headspaced to within .003-inch and not just so-so. He uses precision gauges for each operation and leaves nothing to chance, except his possible profit. His working load is 60 grains of No. 4350 and he goes up to 64 grains in experimental loads. Properly chambered and closely headspaced in a good action, that belted Magnum case will withstand a lot of pressure. McCrea builds a series of calibers on the .275 H. & H. Magnum case including the .284 (7-mm.) and .288 Super Magnum and .308 Magnum. In the latter, a case-full of No. 4350, or 60 grains of No. 4064, has been used behind the M1 bullet with minute-of-angle accuracy.

The very latest McCrea conversion is an odd shouldered (looks folded) .30-'06 case necked down for .224-inch bullets and intended for 48 grains of No. 4064, or 44 grains of No. 3031, with the Sisk 55-grain Express bullet. This odd case has given him good results in tests, but it looks to be tricky to reform and difficult to headspace exactly. Its capacity is 49 grains of No. 4064. It and other creations are shown in the accompanying cuts. McCrea converts rifles having strong actions in .220, .256, .257, 7-mm., .270 and .30 caliber using the .275 H. & H. Magnum case, or any of these for standard factory ammunition.

**Krag Speed Action.** Now that it is more difficult to obtain Government rifles, owners will be interested in getting the most out of any Krag action or M-1917 action which they may acquire. A real improvement has been developed in a speed-action for the Krag in a low-cost conversion job by Kenneth E. Clark of Madera, Calif. He cuts off the cocking knob, substitutes a stronger mainspring, lightens the striker and shortens its travel from the regular 9/16 to 5/16 inch. We have used one of these Clark Speed Actions on our Krag in .219 Zipper caliber and, more recently, in Lovell .22 High Power caliber. Our Krag action was heat treated by Sedgley and proof-fired with .30-'06 ammunition. The other day, we tried a complete Krag Sporter converted and relined to .22 Hornet caliber by Clark and equipped with his speed action.

We also received for examination an M-1917 Sporter equipped with the Clark speed-action which cocks on the opening motion, or uplift of the bolt handle. In this action also, the striker travel has been shortened ¼ inch and, as in the Clark Krag, the take-up of the pull has been eliminated. On both the Krag and the M-1917 the trigger let off is smooth and clean. On the M-1917, Clark does not extend the bolt body and cocking-cam slope as some converters do, but the cocking piece is extended instead. This Clark method increases the cocking movement of the striker .485 inch, while others we have measured showed a difference of .475 inch as compared with that of the standard M-1917 action. We mean the cocking travel caused by the uplift of the bolt handle. The cocking or opening of the Clark action is slightly easier than that of some conversions we have tried. His Krag Speed Action is not as easy to open as the standard Krag on account of the stiffer or stronger mainspring Clark

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employs. This small difference probably would not be noticeable in rapid fire or in the face of game. In both the Krag and the M-1917 the regular cocking cam or standard bolt body slope is retained. From previous experience with them and from the present examination we would pronounce both Clark jobs to be quite satisfactory.

\* \* \*

**New Hunting Knife.** M. W. Yale of Salida, Colorado, sent in one of his sheath knives which he handforges and oil tempers in his gunsmith shop. It has an aluminum-capped, one-piece, walnut handle oil finished like Yale's custom stocks. Yale, who is also a toolmaker, tests his knife blades by whittling wire nails and spikes. The sample was a medium-size with 4½-inch blade; also made with 4-inch and 5-inch blades. The back of the blade is edged near the point for splitting or ripping. It appears to be about right for such game as elk, somewhat light for moose and on the heavy side for eastern deer. Knives are also made to customer's specifications, and standard models can be had with hunting scenes etched on the blades. We have seen none of these scenes. After casual use, the sample knife seems to be a good tool. It holds its very sharp edge very well indeed.

\* \* \*

**New Jaymac Tripod** is a new departure for the makers, who formerly featured one of the best low-cost scope stands. The new model costs about twice as much and is offered in competition with the best tripods on the market. It has a wide spread of legs (14 inches between points) which fold neatly and an offset cradle for the scope. The finish is black crackle and polished aluminum. The standards, in 12-inch lengths, are of ⅝-inch diameter. The first section permits a height of the scope anywhere between 9 and 19 inches above the ground. The micrometer elevation control is very convenient with its coil spring and large thumb screw. The knurled thumb-screw lock, uniquely employed, is the best means of fastening a scope-holding strap that we have seen.

The leather-padded, V-rest, offset to the right, is held, by a thumb-screw, to the spindle or standard, and it can be quickly adjusted to any height by loosening this single screw and sliding it and the scope up or down the standard or along the extra sections when they are in use. This would be convenient when changing from standing to prone, or vice versa. The stand is neat, light and attractive. It is one of the best we have seen. At maximum height it may not be as rigid as heavier stands, but a spike-end bottom section can be had for ground anchorage.

#### TRADE DOPE

"Al Freeland's Catalogue" No. 41, for 1941, has arrived. Its 44 pages illustrate, describe and list such Freeland specialties as the new DeLuxe Offset Stand, (now made with a safety stud so base and top will not separate until the stud is unscrewed) the special stand for the 65-mm. B. & L. scope, the shooting-kit scope holder and the big "Pistoleer" or Coach's stand, which latter has been improved with a stud to facilitate joining of sections. This latter is our favorite for pistol shooting because of its stability, and it always stands beside our bench rest in our group-shooting sessions. Another Freeland specialty which we appreciate on raw windy days is his "Lucky Fellow Shooting Outfit," a coverall which keeps dampness, dirt and weather on the outside. A new Freeland offering, in the catalog, is the "Open Two Ends" sheepskin case for scopes, closed by hookless fasteners.

L. G. Thomas now has further reduced the price of his excellent trigger for the 52 Winchester, and it can be installed at home or by any local gunsmith. Always one of the best short-movement trigger mechanisms, it has now become one of the best values as well. It is a neater, more compact affair and more easily installed and adjusted unit as compared with the earlier model in our own 52-W rifle. There are, as formerly, separate adjustments for tension, sear and back-slap.

\* \* \*

G. R. Douglas does no stock work, but he will do incidental metal work on any gun action which he rebarrels, his specialty. He is a custom-fitter of rifle barrels, in standard or special calibers. His low-cost job on Mauser actions includes a surplus M-1917 barrel cut and rethreaded and headspaced to .004-inch maximum. These barrels are turned to 1½ inch at the breech, cut to 24 inches and crowned at the muzzle. He makes his own chambering tools to standard dimensions. In chambering, his reaming oil is introduced at the muzzle (100-lbs. pressure) to keep chips away from his bore pilot and thus insure a smooth unscratched job. Finish reaming is done by hand under the same oil-flushing set up. He makes no barrels.

\* \* \*

James E. Moon, whose Moon Slick has proved to be an excellent gun-action lubricant with fine rust-inhibitive qualities, sent us a block of "Liquid Plastic," set by air contact into a cloudy-amber-like solid. The peculiarity of this substance is that it tends to fill or close any indents made in its surface with sharp or dull instruments. We tried a bullet hole in it, and had only the hole, which was somewhat intangible as our high-velocity .30-'06 bullet disintegrated the mass completely.

\* \* \*

The Humboldt Bowmen advise that they furnish no stock blanks, but only complete stocks, of myrtle wood or walnut, fitted by them to the customer's rifle. They feature the Keith Monte Carlo design on rifles of heavy recoil, from .30-'06 to .375 Magnum, inclusive. Their chief business is remodeling military rifles and sporting rifles to order, especially in myrtle wood, and avoiding only freak designs.

\* \* \*

Karl F. Hansen, beginning in early March, has enlarged his gun store in White Plains and added fishing tackle to his line of sporting goods.

\* \* \*

Cascamite is a plastic adhesive, by the Casein Company, which B. W. Alexander says is an amazingly strong glue. He used it on an inletted pistol grip and on a fore-end tip.

\* \* \*

Art Mashburn of Shawnee, Okla., sent in some of his Super Stock Finish which we have tried on a dark porous piece of American walnut. It is a good fast finish which filled the pores well. While it seemed to show the grain well, it left a finish as dark as oil usually does. After the wood surface is prepared by sanding and "whiskering" as usual, an S.S.F. coating is applied and allowed to thicken for ¾ hour before rubbing it down to the wood with a cloth. The job is now left to dry for ten hours and the process is repeated. Four or five coats are required for a thorough job. Finally a few drops of linseed oil may be rubbed on with the hand or a lintless cloth. Mashburn claims his S.S.F. is oil and water resistant.

\* \* \*

James E. Serven, whose address is 1615 French St., Santa Ana, California, has just issued a catalog of the Bierly collection of

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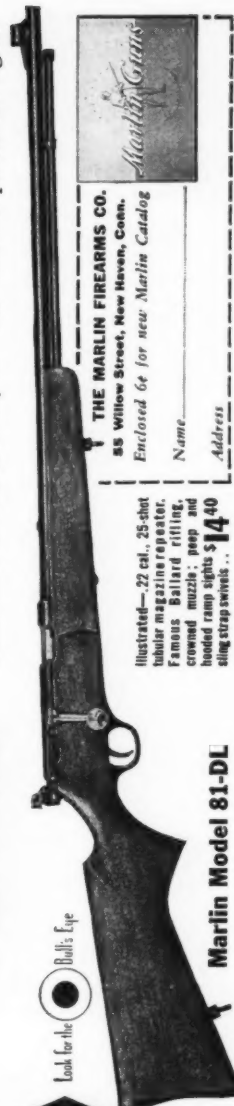
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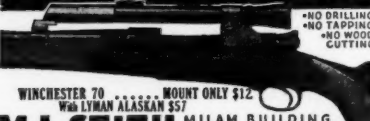


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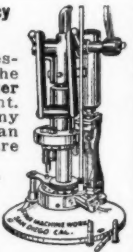
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ancient arms, listing almost 700 pieces. Collectors need be told no more than that two 1847 Whitneyville Colts, several Patersons, a Nichols & Childs revolver and a couple of Berlin Norths are among the Bierly pieces offered. The price of Serven's 24-page illustrated (7 plates) catalog is 50c.

\* \* \*

**Marlin Firearms Catalog.** The new Marlin illustrated catalog of their current models is more than customarily pretentious in its red, white and blue cover and 7 x 9 1/2-inch size. It is an attractive book, and it displays the various Marlin guns very effectively. I am glad to see a full-size semi-beavertail, pistol-grip stock, with sling swivels, peep and globe sights on the M-101-DL .22-caliber single-shot bolt-action and the same stock and equipment on the M-80-DL clip-magazine repeater. Both these models are adapted for beginners, juniors or their target-training coaches.

For plinkers and hunters there are the M-A-1DL 6-shot clip-loading semi-automatic with the same stock and equipment and the well-known M-39-A lever action repeater in .22 caliber. There is also the M-100-SB bolt-action single-shot smooth-bored for the .22 LR shot cartridge. All these .22 arms have round barrels 24 inches long. The most interesting deer rifle is the M-36-A-DL, in .30-30 or .32 W. Spl. caliber, with 3/8 magazine, checkered pistol-grip stock, checkered semi-beavertail fore arm and sling. The most interesting shotgun is the M-90-ST Over and Under with checkered stock, rubber recoil pad and a single-trigger, all at a list price below fifty bucks.

\* \* \*

**Acheson Colloids Corporation** has added a new "Dag" to their popular colloidal-graphite-bearing line; Oil-Dag, Grease-Dag and Aqua-Dag. The new one is Type 3004, of which we have received a sample. The vehicle in this case is that thin fast-evaporating liquid, carbon-tetrachloride. This Type 3004 dispersion contains 10% stabilized graphite by weight and it may be diluted up to 10 times. The uses which at once suggest themselves are: lubricating cases inside and out for reducing resizing friction, for lubricating clip magazines and those actions which must be kept relatively dry, and for lubricating the projecting cylindrical surface of seated bullets by dipping. The volatile carrier, of course, evaporates almost immediately, leaving a thin film of graphite.

\* \* \*

**Remodeled Enfield.** We have examined a remodeling job by Scaramuzzo & Sons of Chicago, on the M-1917 rifle, which seems to be a fine value, at less than forty bucks without sights. The stocking job, at less than half the total cost, is well proportioned and appointed and equipped. It is of a nice piece of walnut and has a fine finish. It seems to be properly bedded and it is complete with sling, cheekpiece, checkering and fore-end tip.

\* \* \*

**Defective Sample.** The Brilliant Search Light Mfg. Co. reported back that their sample carbide lamp, which we reviewed in the March Dope Bag, proved to be defective as it leaked and wasted its gas. Ordinarily, these lamps burn from 4 to 8 hours, according to which type of two burners is used, instead of the 2 hours duration which we got with the leaking sample. This correction came from Mr. Kristy of the maker's firm, whose letter pointed out that the headpiece weighs but 7 ounces when the 5-ounce door holding the Bull's Eye lens is unhinged and removed. This is easily done as the double lens employment is optional.

**Remington Chronoscope Available.** This new velocity-meter was mentioned in the February Dope Bag and it was fully discussed in the March AMERICAN RIFLEMAN by Mr. Bradford, of the Remington Research Division. The latter has informed us the chronoscope can be purchased, at \$450.00, from the Remington Arms Company at Bridgeport. Delivery time is from six weeks to two months.

\* \* \*

**Arms Service Division** of the Savage Arms Corporation is now headed by Paul A. Shepherd according to word received here.

**"Inner-Belted" Bullets**, of expanding soft-point type, are now loaded by Peters in their .300 Savage cartridge. This 150-grain bullet has an m.v. of 2660 f.-s. with 2000 f.-s. remaining at 300 yards. The energy is 1970 ft.-lbs. at 100 yards and 1325 ft.-lbs. at 300 yards. The midrange trajectory is .7 inch over 100 yards, 3 inches over 200 yards and 7.5 inches over 300 yards.

**Bogle Service.** Clifford Bogle of Maryville, Tennessee, offers for sale his services in developing new inventions. Full particulars can be obtained from him.

**New Promotion Division** has been set up by Remington at Bridgeport to coordinate sales promotion activities of the firm. The director is R. H. Coleman. The present set-up of the Remington executive offices, with C. K. Davis as president, has: Gail Evans as advertising manager; W. A. Tewes, technical section; F. J. Kahrs, rifle section; D. W. Flannigan, trap, skeet and peace-officers' section; R. B. Dillman, trade analysis section and J. J. Callahan, dealers' section.

**Potter Engineering Co.** will move, after April 1, to 10 Albany Street, Cazenovia, N. Y., where in addition to expanded facilities for making Duplex reloaders and electric melting furnaces, they will have an indoor ballistic testing range and a new service for customers.

## LETTERS

**.32-20 Rifle and Revolver.** I have derived quite a bit of pleasure, the past two years, reloading for a S. & W. revolver, a Savage and Marlin 27-S rifle, all in .32-20 caliber. Up until last winter, I had only the Marlin 27-S rifle and the .32-20 S. & W. revolver. For the rifle I reloaded a cast bullet with 9 grains of Dupont No. 80 powder. First, let me say that I have the Ideal Handbook as well as the Belding and Mull, and believe I have gone through both quite thoroughly.

I started in with 5 grains for both the rifle and revolver and worked up. Of course, my only way of checking was comparing recoil, report, penetration and effect on primer with those of standard commercial cartridges. In the meantime, I wrote to both Marlin and S. & W. and neither one recommended reloading but recommended only standard commercial cartridges, Marlin saying that both regular and Hi-Speed loads could be fired with safety. In the meantime I wrote to Lyman and they stood behind the recommended load (of 11 grains Dupont No. 80 as I recall) in their handbook. However, I dropped off at 7 grains with the revolver and 9 grains with the rifle, as it seemed to me that was, in each case, the equivalent of, if not superior to, the commercial loads.

Then one day last winter the Marlin blew open. Nothing was hurt that I could discover and, while I have shot it a few times in test since, I've always been afraid of it with reloaded cartridges.

Now the question: the mechanism of the Marlin doesn't strike me as being any too

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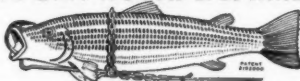


On the official Questionnaire sent by the N.R.A. to the top-ranking 125 pistol shooters for 1940, King sights were indicated as having been used in match competition as follows: **45% on .22 caliber, 64% on center fire, 6% on .45 caliber handguns.** An average of 38% for all 3 calibers, or **DOUBLE** that of the next closest make of sights! Send 10¢ for complete catalog "A".



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strong, which I suspected from the beginning. At the same time I feel reasonably safe with the Savage (which I purchased shortly after). But with all my regard and respect for a bolt-action, it is a little slow for my use, so I would like a Remington slide action.—E. T. Q.

**Answer:** Relative to revolver handloads in the .32-20 case with No. 80 powder, I would consider 8 1/2 grains a maximum charge behind the 115-grain bullet seated to a depth of .35 inches. Likewise I would consider 9 grains a maximum charge with a similar bullet seated to a depth of .325 inches. With a 100-grain bullet seated only 1/4-inch in the case mouth, I would place the maximum load at 10 grains weight. All the above loads are for handguns and with modern non-corrosive primers. The maximum load I used in my revolver with old-style primer was 8 grains weight No. 80 in the .32-20 caliber.

Many times this blew the heads off of cases which are very weak in this caliber (after reloading them one or two times). In the rifle these loads are safer and with the 100-grain bullet you could go up to nearly 11 grains weight of No. 80 powder, but the charges should not be increased with the heavier bullets or when the 100-grain bullet is seated to a greater depth than .25-inch. For example, the maximum load with the 115-grain bullet seated to a depth of .35-inch with modern corrosive primers for use in the rifle should not exceed 8.8 grains weight No. 80 powder. There is always a chance, however, that the seating depth might be increased and that would make the load excessive. Also the powder has a characteristic of developing considerable head pressure which would strain the weakest part of the case and also increase the back thrust on the bolt of the rifle.



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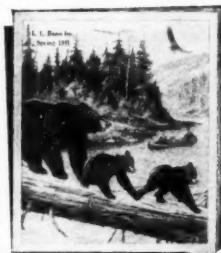
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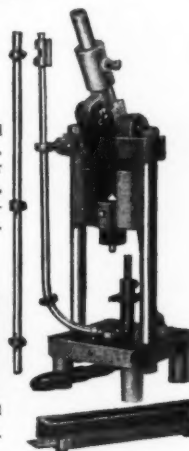


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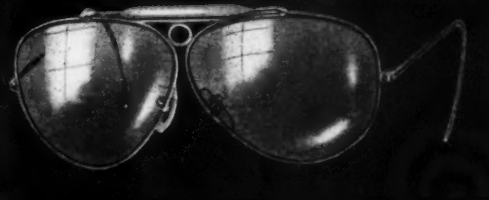
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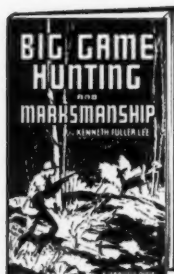
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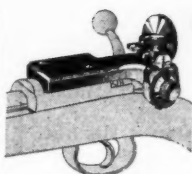
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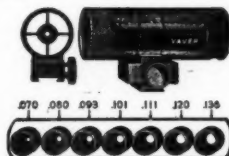
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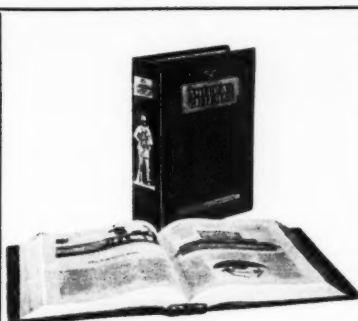
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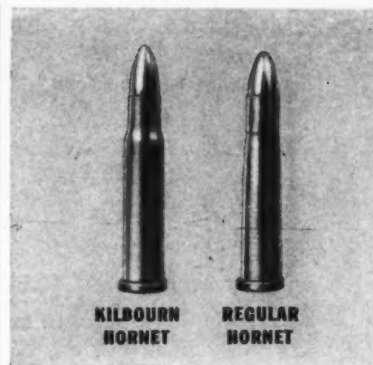
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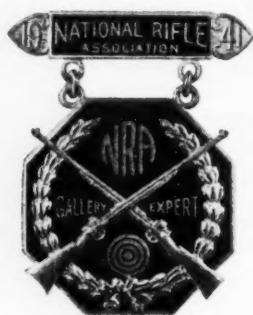
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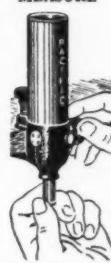
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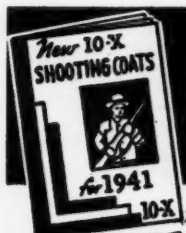
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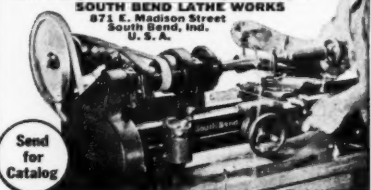
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There is a timely moral in this story.

It explains the appearance of an application for N.R.A. membership in every issue of the *RIFLEMAN*; explains, too, why we keep on urging members to **ask** their friends to join the Association.

You need have no hesitancy about telling your fellow sportsmen that they are missing a lot of pleasure and satisfaction if they are not N.R.A. members. Nor in **asking** them to join, for our money's worth guarantee insures full refund of dues in case a new member becomes dissatisfied within six months.

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Mr. C. B. Lister, Secretary-Treasurer,  
National Rifle Association of America,  
1600 Rhode Island Avenue, Washington, D. C.

MY DEAR MR. SECRETARY:

I am just as glad to endorse this applicant for membership in our Association as I was to ask him to support the patriotic ideals and services of our organization.

Fraternally,

(Signature)

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APPLICANT

(Signature)

AGE

ADDRESS

CITY AND STATE

*Danger*

*Ahead!!*

**HELP!!**



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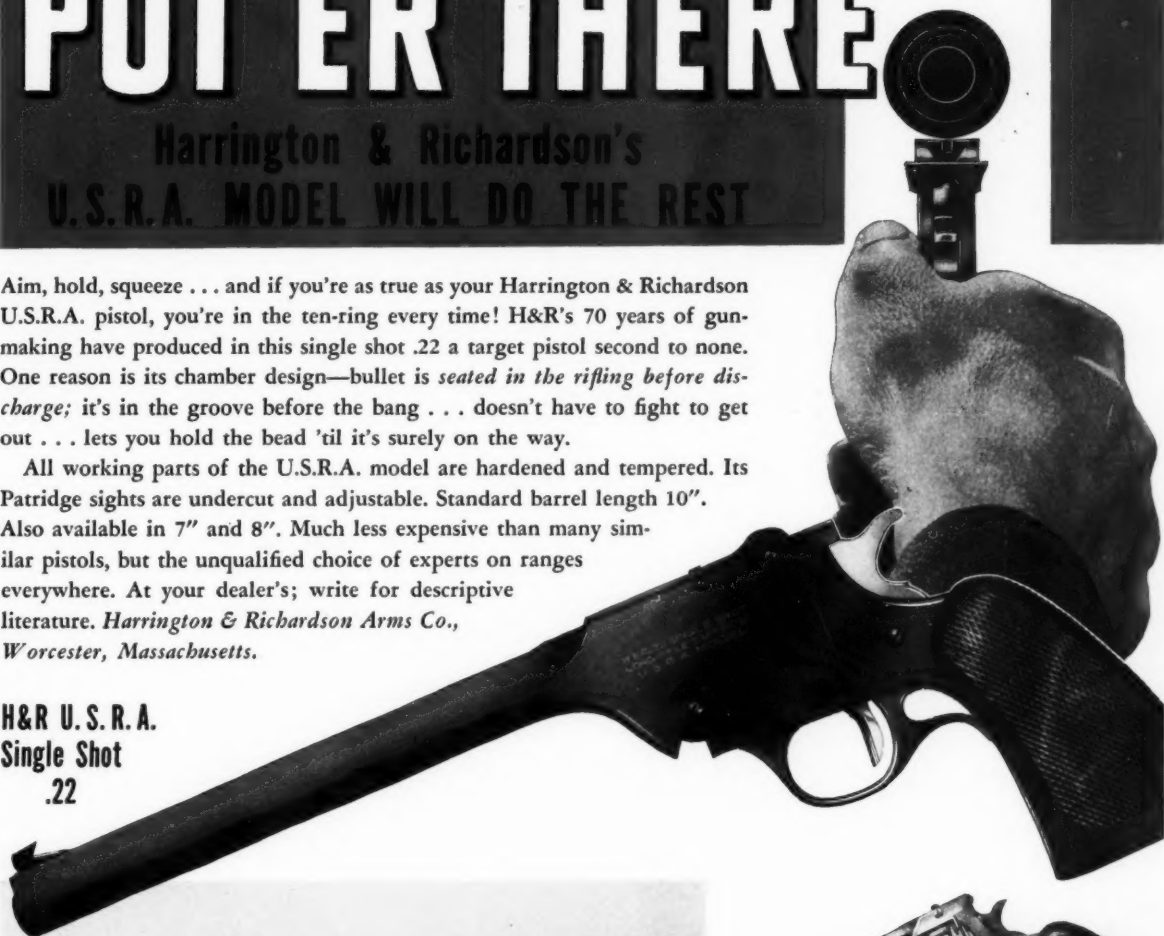
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